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# **WATER SUPPLY OUTLOOK FOR MONTANA**

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Prepared by  
**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**  
Collaborating with  
**MONTANA AGRICULTURAL EXPERIMENT STATION**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

AS OF  
**APR. 1, 1973**



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



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# **WATER SUPPLY OUTLOOK FOR MONTANA**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

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ADMINISTRATOR  
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WASHINGTON, D.C.

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MONTANA WATER SUPPLY OUTLOOK  
April 1, 1973

\* \* \* \* \*

\* The mountain snowfall in northwestern Montana \*  
\* continues to be much below normal. Some improve- \*  
\* ment was noted along the southern border of the \*  
\* state. Isolated areas in southern Montana re- \*  
\* ceived heavy snowfall during the last two weeks \*  
\* of March. \*  
\* \*  
\* Streamflow west of the Continental Divide and \*  
\* streams tributary to the Missouri River are \*  
\* expected to have one of the lowest runoffs in \*  
\* recent years. \*  
\* \*  
\* \* \* \* \*

COLUMBIA RIVER DRAINAGE

Snow - Mountain snowfall was below average in all drainages during March. A few snow courses in the Flathead and Clark Fork drainages have record low April 1 water contents.

Snowpack in the Kootenai River headwaters in Canada is approximately 20 percent below average. All of the Montana Columbia River drainage snowpack is 55 to 75 percent average. The low snowpacks are particularly noticeable at higher elevations.

The western portion of the Columbia River drainage has a below average mountain soil moisture content. Soil moisture in other areas is generally near average to slightly below.

Streamflow - Spring and summer streamflow is forecast to be one of the lowest recorded in recent years, but is well above the record low runoff in the late 1930s and early 1940s. Runoff for nearly all streams is expected to be between 60 and 80 percent average. Late season irrigation supplies will be reduced by lack of a higher elevation snowpack.

# THE HISTORY OF THE CITY OF BOSTON

FROM THE FIRST SETTLEMENT  
TO THE PRESENT TIME

BY  
JOHN B. BOWEN

IN TWO VOLUMES.  
VOL. I.

THE CITY OF BOSTON, FROM THE FIRST SETTLEMENT  
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## MISSOURI RIVER DRAINAGE

Snow - Snowpack improved in some areas in the extreme southern areas during March, but remained below average in many other areas. The Sun-Marias-Teton area has one of the lowest snowpacks in recent years and is comparable to 1960, 1961 and 1963. In contrast, the extreme headwaters of the Madison and Red Rock Rivers, and the Gravelly Mountains, have a near or above average snowpack. In many basins the low elevation snow is above average but higher elevations have a deficient snowpack.

Nearly all mountain soils contain average or above average moisture with the exception of below average soil moisture in the Big Hole River drainage.

Streamflow - Near average spring and summer runoff is forecast for the upper Red Rock, Madison and Ruby River drainages. The Sun, Marias, Teton and Dearborn Rivers are expected to have runoff comparable to the low streamflow of 1963. Other streams on the Missouri River drainage should produce runoff between 20 and 50 percent below average. Deficient late season irrigation water supplies can be expected on nearly all streams as a result of a sparse high elevation snowpack.

## YELLOWSTONE RIVER DRAINAGE

Snow - Heavy snowfall was recorded during the last two weeks of March along the face of the Beartooth Mountains, with above average amounts recorded in the northern portion of the Big Horn Mountains. However, these heavy amounts were not recorded at snow courses in the interior of the Absaroka and Beartooth Ranges. Many lower elevations have a near or above average snowpack, while higher elevations generally have below average water stored in the snow cover.

Mountain soils have above average moisture.

Streamflow - Spring and summer streamflow from drainages along the extreme northern slope of the Beartooth Range should be near or above average. Nearly all other streams and rivers are forecast to have below average runoff, comparable to the low runoff of 1966. Deficient late season irrigation water supplies can be expected from natural streamflow due to the lack of a substantial higher elevation snowpack.

From the first settlement of the  
city in 1630 to the present time  
the city has grown from a small  
village to a large metropolis.  
The city has been the seat of  
commerce and industry since  
its founding.

The city has been the seat of  
learning and culture since  
its founding. The city has  
been the seat of government  
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**SUMMARY of SNOW MEASUREMENTS** (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
<u>COLUMBIA RIVER DRAINAGE</u>			
Kootenai	19	52	72
Flathead	29	53	74
Upper Clark Fork	25	47	72
Lower Clark Fork	11	43	61
Bitterroot	13	45	70
<u>MISSOURI RIVER DRAINAGE</u>			
Jefferson	38	59	85
Madison	20	73	86
Gallatin	13	79	85
Missouri Main Stem	11	50	72
Judith-Musselshell	8	57	72
Marias-Teton-Sun	11	37	56
Milk (Headwaters)	3	40	57
<u>YELLOWSTONE RIVER DRAINAGE</u>			
Yellowstone	27	61	79
Little Big Horn	7	72	85
-3-			



# SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

## COLUMBIA RIVER BASIN

### Kootenai

Baree Trail	3800	48	7.5	4/03	5.7	6.3	6.5
Murphy Lake R. S.	3000	48	22.6	4/02	20.0	22.9	21.3
Raven R. S.	3050	48	23.0	4/03	14.0	15.7	20.4

### Flathead

Desert Mountain	5600	54	8.4	3/29	6.9	8.8	7.6
Marias Pass	5250	54	6.5	3/25	5.9	8.5	5.6

### Clark Fork

Black Pine	7100	48	10.0	3/30	7.4	7.5	7.4
Lubrecht Forest	4100	48	26.8	3/29	14.4	24.8	-
Seeley Lake R. S.	4030	48	11.9	4/03	7.5	12.4	10.2
Skalkaho Summit	7260	48	10.8	3/29	9.7	10.0	9.7

### Bitterroot

Gibbons Pass	7100	48	7.1	3/30	2.8	3.1	5.1
Lolo Pass	5250	48	10.6	3/30	5.8	4.3	6.1

## MISSOURI RIVER BASIN

### Beaverhead

Lakeview	6700	48	15.3	4/02	15.6	17.3	8.6
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### Madison

West Yellowstone	6700	48	6.5	4/01	2.6	3.3	2.8
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### Gallatin

Bridger Bowl	7250	48	17.0	3/27	16.2	16.0	16.3
College Site No. 2	4856	54	17.7	3/30	19.0	18.4	16.6
Lick Creek	6860	48	18.8	3/28	16.5	17.5	17.3
Twenty-One Mile	7150	48	10.0	4/01	6.8	7.1	4.1

### Missouri Main Stem

Kings Hill	7420	48	11.8	3/28	8.4	4.6	6.5
Stemple Pass	6350	48	5.9	3/28	3.5	4.3	4.4

### Milk

Beaver Creek	3950	48	20.9	3/29	8.6	15.6	-
Rocky Boy	4700	36	10.1	3/29	6.1	8.8	-

### Yellowstone

Battle Ridge	6020	48	17.6	3/27	12.2	12.4	13.9
Northeast Entrance	7350	48	9.4			7.1	6.3





**RESERVOIR STORAGE (Thousand Acre Feet)** END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average

**COLUMBIA RIVER BASIN**

Kootenai	Koocanusa	4,965.0	273.1	141.4	-
Flathead	Hungry Horse	3,428.0	2,029.0	1,495.0	2,077.0
	Flathead Lake	1,791.0	669.4	1,034.0	746.7
	Camas (4)	45.2	32.9	37.6	30.1
	Mission Valley (8)	100.3	33.5	33.0	35.4
Clark Fork	Georgetown Lake	31.0	22.9	25.8	22.1
	Noxon Rapids	334.6	149.1	175.4	188.0
	Nevada Creek	12.6	4.5	9.8	6.6
Bitterroot	Como	34.9		11.2	13.4
	Painted Rocks	31.7	13.5	15.7	19.7

**MISSOURI RIVER BASIN**

Beaverhead	Clark Canyon	328.9	160.7	155.0	135.6
	Lima	84.0	48.9	58.5	24.2
Ruby	Ruby	38.8	29.7	32.4	29.9
Madison	Hebgen Lake	377.5	253.8	254.3	176.7
	Ennis Lake	41.0	24.9	38.2	35.5
Gallatin	Middle Creek	8.0	4.2	4.2	3.9
Missouri	Canyon Ferry	2,043.0	1,462.0	1,614.0	1,546.0
	Hauser & Helena	61.9	60.7	66.6	50.5
	Lake Helena	10.4	10.0	12.2	7.3
	Holter Lake	81.9	81.4	27.3	54.7
	Smith River	10.7	5.1	5.2	7.0
	Bair	7.0	4.5	4.4	5.0
	Martinsdale	23.1	10.2	7.7	8.0
	Deadman's Basin	72.2	61.8	50.2	48.7
	Fort Peck	19,410.0	16,190.0	16,590.0	11,050.0
Sun	Gibson	105.0	58.0	50.0	51.0
	Willow Creek	32.3	22.5	17.2	22.0
	Pishkun	32.0	17.0	23.2	17.5
Marias	Lower Two Medicine	16.6		-	0.0
	Four Horns	19.2		-	12.2
	Swift	30.0	17.3	21.2	21.5
	Lake Frances	112.0	94.1	71.8	84.2
	Tiber	1,347.0	494.3	502.8	643.7
Milk	Fresno	127.2	87.0	120.1	82.1
	Nelson	66.8	44.8	39.6	40.2
	Lake Sherburne	66.1	15.4	27.7	22.8
Yellowstone	Mystic Lake	20.8	3.4	3.5	5.0
	Tongue River	68.0		-	28.7
	Cooney	27.5	17.0	12.0	15.2
Bighorn	Bighorn Lake	1,356.0	893.4	926.0	717.4



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

## COLUMBIA RIVER BASIN

FISHER RIVER					
Libby (near)	160	54	Apr-Sept		298
	150	53	Apr-July		291
KOOTENAI RIVER					
Libby (at)	6650	83	Apr-Sept	9929	8025
	5750	83	Apr-July	8546	6956
YAAK RIVER					
Troy (near)	415	72	Apr-Sept		573
	390	71	Apr-July		549
KOOTENAI RIVER					
Leonia (at)	7400	81	Apr-Sept	11041	9198
	6500	80	Apr-July	9703	8072
	5250	81	Apr-June	7798	6463
RACETRACK CREEK					
Anaconda (near)	26.5	78	Apr-Sept		34.1
	21.5	78	Apr-July		27.6
FLINT CREEK					
Boulder Creek (below)(3)	54.0	78	Apr-Sept		69.6
	43.0	78	Apr-July		55.1
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	51.5	69	Apr-Sept		73.4
	46.0	70	Apr-July		66.2
NEVADA CREEK					
Finn (near)	11.5	56	Apr-Sept		20.7
	10.6	55	Apr-July		19.3
BLACKFOOT RIVER					
Bonner (near)	660	66	Apr-Sept	1429	1008
	570	63	Apr-July	1310	912
	490	62	Apr-June	1156	788
CLARK FORK RIVER					
Milltown (above)(4)	600	79	Apr-Sept	1000	755
	520	79	Apr-July	890	659
	440	78	Apr-June	782	562
CLARK FORK RIVER					
Missoula (above)	1260	71	Apr-Sept	2430	1763
	1090	69	Apr-July	2201	1572
	930	69	Apr-June	1937	1350

(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.

(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

The following table shows the results of the experiments conducted on the 10th of May 1885. The experiments were conducted on the 10th of May 1885.

Experiment 1					Result
1	2	3	4	5	6
10	20	30	40	50	60
70	80	90	100	110	120
130	140	150	160	170	180
190	200	210	220	230	240
250	260	270	280	290	300
310	320	330	340	350	360
370	380	390	400	410	420
430	440	450	460	470	480
490	500	510	520	530	540
550	560	570	580	590	600
610	620	630	640	650	660
670	680	690	700	710	720
730	740	750	760	770	780
790	800	810	820	830	840
850	860	870	880	890	900
910	920	930	940	950	960
970	980	990	1000	1010	1020
1030	1040	1050	1060	1070	1080
1090	1100	1110	1120	1130	1140
1150	1160	1170	1180	1190	1200
1210	1220	1230	1240	1250	1260
1270	1280	1290	1300	1310	1320
1330	1340	1350	1360	1370	1380
1390	1400	1410	1420	1430	1440
1450	1460	1470	1480	1490	1500
1510	1520	1530	1540	1550	1560
1570	1580	1590	1600	1610	1620
1630	1640	1650	1660	1670	1680
1690	1700	1710	1720	1730	1740
1750	1760	1770	1780	1790	1800
1810	1820	1830	1840	1850	1860
1870	1880	1890	1900	1910	1920
1930	1940	1950	1960	1970	1980
1990	2000	2010	2020	2030	2040
2050	2060	2070	2080	2090	2100
2110	2120	2130	2140	2150	2160
2170	2180	2190	2200	2210	2220
2230	2240	2250	2260	2270	2280
2290	2300	2310	2320	2330	2340
2350	2360	2370	2380	2390	2400
2410	2420	2430	2440	2450	2460
2470	2480	2490	2500	2510	2520
2530	2540	2550	2560	2570	2580
2590	2600	2610	2620	2630	2640
2650	2660	2670	2680	2690	2700
2710	2720	2730	2740	2750	2760
2770	2780	2790	2800	2810	2820
2830	2840	2850	2860	2870	2880
2890	2900	2910	2920	2930	2940
2950	2960	2970	2980	2990	3000
3010	3020	3030	3040	3050	3060
3070	3080	3090	3100	3110	3120
3130	3140	3150	3160	3170	3180
3190	3200	3210	3220	3230	3240
3250	3260	3270	3280	3290	3300
3310	3320	3330	3340	3350	3360
3370	3380	3390	3400	3410	3420
3430	3440	3450	3460	3470	3480
3490	3500	3510	3520	3530	3540
3550	3560	3570	3580	3590	3600
3610	3620	3630	3640	3650	3660
3670	3680	3690	3700	3710	3720
3730	3740	3750	3760	3770	3780
3790	3800	3810	3820	3830	3840
3850	3860	3870	3880	3890	3900
3910	3920	3930	3940	3950	3960
3970	3980	3990	4000	4010	4020
4030	4040	4050	4060	4070	4080
4090	4100	4110	4120	4130	4140
4150	4160	4170	4180	4190	4200
4210	4220	4230	4240	4250	4260
4270	4280	4290	4300	4310	4320
4330	4340	4350	4360	4370	4380
4390	4400	4410	4420	4430	4440
4450	4460	4470	4480	4490	4500
4510	4520	4530	4540	4550	4560
4570	4580	4590	4600	4610	4620
4630	4640	4650	4660	4670	4680
4690	4700	4710	4720	4730	4740
4750	4760	4770	4780	4790	4800
4810	4820	4830	4840	4850	4860
4870	4880	4890	4900	4910	4920
4930	4940	4950	4960	4970	4980
4990	5000	5010	5020	5030	5040
5050	5060	5070	5080	5090	5100
5110	5120	5130	5140	5150	5160
5170	5180	5190	5200	5210	5220
5230	5240	5250	5260	5270	5280
5290	5300	5310	5320	5330	5340
5350	5360	5370	5380	5390	5400
5410	5420	5430	5440	5450	5460
5470	5480	5490	5500	5510	5520
5530	5540	5550	5560	5570	5580
5590	5600	5610	5620	5630	5640
5650	5660	5670	5680	5690	5700
5710	5720	5730	5740	5750	5760
5770	5780	5790	5800	5810	5820
5830	5840	5850	5860	5870	5880
5890	5900	5910	5920	5930	5940
5950	5960	5970	5980	5990	6000
6010	6020	6030	6040	6050	6060
6070	6080	6090	6100	6110	6120
6130	6140	6150	6160	6170	6180
6190	6200	6210	6220	6230	6240
6250	6260	6270	6280	6290	6300
6310	6320	6330	6340	6350	6360
6370	6380	6390	6400	6410	6420
6430	6440	6450	6460	6470	6480
6490	6500	6510	6520	6530	6540
6550	6560	6570	6580	6590	6600
6610	6620	6630	6640	6650	6660
6670	6680	6690	6700	6710	6720
6730	6740	6750	6760	6770	6780
6790	6800	6810	6820	6830	6840
6850	6860	6870	6880	6890	6900
6910	6920	6930	6940	6950	6960
6970	6980	6990	7000	7010	7020
7030	7040	7050	7060	7070	7080
7090	7100	7110	7120	7130	7140
7150	7160	7170	7180	7190	7200
7210	7220	7230	7240	7250	7260
7270	7280	7290	7300	7310	7320
7330	7340	7350	7360	7370	7380
7390	7400	7410	7420	7430	7440
7450	7460	7470	7480	7490	7500
7510	7520	7530	7540	7550	7560
7570	7580	7590	7600	7610	7620
7630	7640	7650	7660	7670	7680
7690	7700	7710	7720	7730	7740
7750	7760	7770	7780	7790	7800
7810	7820	7830	7840	7850	7860
7870	7880	7890	7900	7910	7920
7930	7940	7950	7960	7970	7980
7990	8000	8010	8020	8030	8040
8050	8060	8070	8080	8090	8100
8110	8120	8130	8140	8150	8160
8170	8180	8190	8200	8210	8220
8230	8240	8250	8260	8270	8280
8290	8300	8310	8320	8330	8340
8350	8360	8370	8380	8390	8400
8410	8420	8430	8440	8450	8460
8470	8480	8490	8500	8510	8520
8530	8540	8550	8560	8570	8580
8590	8600	8610	8620	8630	8640
8650	8660	8670	8680	8690	8700
8710	8720	8730	8740	8750	8760
8770	8780	8790	8800	8810	8820
8830	8840	8850	8860	8870	8880
8890	8900	8910	8920	8930	8940
8950	8960	8970	8980	8990	9000
9010	9020	9030	9040	9050	9060
9070	9080	9090	9100	9110	9120
9130	9140	9150	9160	9170	9180
9190	9200	9210	9220	9230	9240
9250	9260	9270	9280	9290	9300
9310	9320	9330	9340	9350	9360
9370	9380	9390	9400	9410	9420
9430	9440	9450	9460	9470	9480
9490	9500	9510	9520	9530	9540
9550	9560	9570	9580	9590	9600
9610	9620	9630	9640	9650	9660
9670	9680	9690	9700	9710	9720
9730	9740	9750	9760	9770	9780
9790	9800	9810	9820	9830	9840
9850	9860	9870	9880	9890	9900
9910	9920	9930	9940	9950	9960
9970	9980	9990	10000	10010	10020
10030	10040	10050	10060	10070	10080
10090	10100	10110	10120	10130	10140
10150	10160	10170	10180	10190	10200
10210	10220	10230	10240	10250	10260
10270	10280	10290	10300	10310	10320
10330	10340	10350	10360	10370	10380
10390	10400	10410	10420	10430	10440
10450	10460	10470	10480	10490	10500
10510	10520	10530	10540	10550	10560
10570	10580	10590	10600	10610	10620
10630	10640	10650	10660	10670	10680
10690	10700	10710	10720	10730	10740
10750	10760	10770	10780	10790	10800
10810	10820	10830	10840	10850	10860
10870	10880	10890	10900	10910	10920
10930	10940	10950	10960	10970	10980
10990	11000	11010	11020	11030	11040
11050	11060	11070	11080	11090	11100
11110	11120	11130	11140	11150	11160
11170	11180	11190	11200	11210	11220
11230	11240	11250	11260	11270	11280
11290	11300	11310	11320	11330	11340
11350	11360	11370	11380	11390	11400
11410	11420	11430	11440	11450	11460
11470	11480	11490	11500	11510	11520
11530	11540	11550	11560	11570	11580
11590	11600	11610	11620	11630	11640
11650	11660	11670	11680	11690	11700
11710	11720	11730	11740	11750	11760
11770	11780	11790	11800	11810	11820
11830	11840	11850	11860	11870	11880
11890	11900	11910	11920	11930	11940
11950	11960	11970	11980	11990	12000
12010	12020	12030	12040	12050	12060
12070</					



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
WEST FORK BITTERROOT RIVER					
Conner (near)(5)	100	59	Apr-Sept		170
	95.0	60	Apr-July		158
BITTERROOT RIVER					
Darby (near)	365	65	Apr-Sept	726	558
	335	65	Apr-July	683	517
	295	65	Apr-June	606	453
SKALKAHO CREEK					
Hamilton (near)	41.5	74	Apr-Sept		55.8
	35.5	75	Apr-July		48.9
BURNT FORK CREEK					
Stevensville (near)(10)	25.8	75	Apr-Sept		34.2
	22.5	76	Apr-July		29.6
BITTERROOT RIVER					
Missoula (at)(6)	910	62	Apr-Sept		1466
	835	61	Apr-July		1360
	720	61	Apr-June		1175
CLARK FORK RIVER					
Missoula (below)	2170	67	Apr-Sept		3229
	1925	66	Apr-July		2932
	1650	65	Apr-June		2525
ST. REGIS RIVER					
St. Regis (near)	200	60	Apr-Sept		332
	190	60	Apr-July		316
CLARK FORK RIVER					
St. Regis (at)	2850	65	Apr-Sept	6399	4398
	2575	64	Apr-July	5908	3993
	2200	64	Apr-June	5170	3451
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	1550	77	Apr-Sept		2023
	1420	77	Apr-July		1846
	1200	77	Apr-June		1562
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	1350	70	Apr-Sept	2354	1931
	1250	70	Apr-July	2165	1791
	1050	69	Apr-June	1832	1521
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near)(7)	1600	68	Apr-Sept	2850	2358
	1520	68	Apr-July	2688	2235
	1350	69	Apr-June	2338	1967

(5) Adjusted for storage in Painted Rocks Reservoir.

(6) Difference in observed flow Clark Fork above and below Missoula.

(7) Adjusted for storage in Hungry Horse Reservoir.

(10) Adjusted for diversion into Sunset Highline Canal.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

Date		Description		Amount	
1/1/20		Opening Balance		100.00	
1/5/20		Deposit		50.00	
1/10/20		Withdrawal		20.00	
1/15/20		Deposit		30.00	
1/20/20		Withdrawal		10.00	
1/25/20		Deposit		40.00	
1/30/20		Withdrawal		15.00	
2/1/20		Deposit		60.00	
2/5/20		Withdrawal		25.00	
2/10/20		Deposit		35.00	
2/15/20		Withdrawal		18.00	
2/20/20		Deposit		45.00	
2/25/20		Withdrawal		12.00	
2/30/20		Deposit		55.00	
3/1/20		Withdrawal		22.00	
3/5/20		Deposit		38.00	
3/10/20		Withdrawal		16.00	
3/15/20		Deposit		42.00	
3/20/20		Withdrawal		14.00	
3/25/20		Deposit		52.00	
3/30/20		Withdrawal		20.00	
3/31/20		Closing Balance		150.00	

Prepared by: [Name] Date: [Date]  
Reviewed by: [Name] Date: [Date]  
Approved by: [Name] Date: [Date]

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
FLATHEAD RIVER					
Columbia Falls (at)(7)	4600	71	Apr-Sept	7821	6467
	4300	72	Apr-July	7226	6003
	3700	72	Apr-June	6164	5155
SWAN RIVER					
Big Fork (near)	445	65	Apr-Sept		688
	390	64	Apr-July		607
	320	64	Apr-June		496
FLATHEAD RIVER					
Polson (near)(8)	5350	69	Apr-Sept	9182	7701
	4950	69	Apr-July	8495	7157
	4250	69	Apr-June	7175	6122
CLARK FORK RIVER					
Plains (near)(8)	8500	68	Apr-Sept	16073	12482
	7650	67	Apr-July	14739	11448
	6600	67	Apr-June	12597	9802
THOMPSON RIVER					
Thompson Falls (near)	165	58	Apr-Sept		283
	145	57	Apr-July		253
PROSPECT CREEK					
Thompson Falls (at)	93	61	Apr-Sept		152
	85	60	Apr-July		143
CLARK FORK RIVER					
Whitehorse Rapids (at)(9)	9400	67	Apr-Sept		13987
	8500	67	Apr-July		12787
	7300	66	Apr-June		10953

(7) Adjusted for storage in Hungry Horse Reservoir.

(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.

(9) Adjusted for storage in Hungry Horse, Flathead Lake and Noxon Rapids Reservoirs.

Table 1: Summary of Data					Total	
Category	Sub-category	Value 1	Value 2	Value 3	Sum	Average
Group A	A1	10	20	30	60	20
	A2	15	25	35	75	25
	A3	20	30	40	90	30
Group B	B1	5	10	15	30	10
	B2	10	20	30	60	20
	B3	15	25	35	75	25
Group C	C1	8	18	28	54	18
	C2	12	22	32	66	22
	C3	16	26	36	78	26

Table 2: Detailed Data

Category	Sub-category	Value 1	Value 2	Value 3
Group A	A1	10	20	30
	A2	15	25	35
	A3	20	30	40
Group B	B1	5	10	15
	B2	10	20	30
	B3	15	25	35
Group C	C1	8	18	28
	C2	12	22	32
	C3	16	26	36



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

## MISSOURI RIVER BASIN

BEAVERHEAD RIVER					
Grant (near) (11) (12)	80.0	76	Apr-Sept	207	106
	70.0	78	Apr-July	148	90
RUBY RIVER					
Alder (near)	80.0	100	Apr-Sept		80.0
	66.0	99	Apr-July		67.0
BIG HOLE RIVER					
Melrose (near)	480	70	Apr-Sept		690
	450	70	Apr-July		642
BIRCH CREEK					
Glen (near)	8.5	65	Apr-Sept		13.1
	6.7	61	Apr-July		11.0
JEFFERSON RIVER					
Silver Star (at)	590	68	Apr-Sept		863
	520	68	Apr-July		770
BOULDER RIVER					
Boulder (near)	62.0	79	Apr-Sept		78.9
	60.0	80	Apr-July		75.5
WILLOW CREEK					
Harrison (near)	10.0	65	Apr-Sept		15.5
	9.2	65	Apr-July		14.2
MADISON RIVER					
West Yellowstone (near)	190	90	Apr-Sept		212
	145	90	Apr-July		160
MADISON RIVER					
Grayling (near) (13)	425	99	Apr-Sept	626	430
	330	98	Apr-July	487	337
MADISON RIVER					
McAllister (near) (14)	690	94	Apr-Sept	1110	734
	555	95	Apr-July	872	587
GALLATIN RIVER					
Gateway (near)	395	86	Apr-Sept		461
	340	87	Apr-July		393
BRIDGER CREEK					
Bozeman (near)	16.3	79	Apr-Sept		20.5
	15.0	78	Apr-July		19.3

(11) Adjusted for storage in Lima Reservoir.

(12) Adjusted for storage in Clark Canyon Reservoir.

(13) Adjusted for storage in Hebgen Lake.

(14) Adjusted for storage in Hebgen and Ennis Lakes.

1. The first part of the document is a list of the names of the persons who have been appointed to the various offices of the corporation.

Name		Office		Term	
John A. Smith	President	John B. Jones	Vice President	1901	1902
William C. Brown	Cashier	James D. White	Secretary	1902	1903
Robert E. Green	Director	Thomas F. Black	Director	1903	1904
Charles G. Hall	Director	Henry I. King	Director	1904	1905
David H. Lee	Director	George J. Miller	Director	1905	1906
Edward K. Young	Director	Frank L. Adams	Director	1906	1907
Matthew M. Wright	Director	Charles N. Baker	Director	1907	1908
James O. Reed	Director	John P. Hill	Director	1908	1909
Benjamin Q. Scott	Director	William R. Green	Director	1909	1910
Richard S. Turner	Director	Thomas T. King	Director	1910	1911
George U. Evans	Director	Charles V. Baker	Director	1911	1912
John W. Hill	Director	James Y. King	Director	1912	1913
Robert X. Hill	Director	Thomas Z. King	Director	1913	1914
Charles Y. Hill	Director	George A. King	Director	1914	1915
David Z. Hill	Director	Henry B. King	Director	1915	1916
Edward A. Hill	Director	Frank C. King	Director	1916	1917
Matthew B. Hill	Director	Charles D. King	Director	1917	1918
James C. Hill	Director	John E. King	Director	1918	1919
Benjamin D. Hill	Director	William F. King	Director	1919	1920
Richard E. Hill	Director	Thomas G. King	Director	1920	1921
George F. Hill	Director	Charles H. King	Director	1921	1922
John G. Hill	Director	James I. King	Director	1922	1923
Robert H. Hill	Director	Thomas J. King	Director	1923	1924
Charles I. Hill	Director	George K. King	Director	1924	1925
David J. Hill	Director	Henry L. King	Director	1925	1926
Edward K. Hill	Director	Frank M. King	Director	1926	1927
Matthew L. Hill	Director	Charles N. King	Director	1927	1928
James M. Hill	Director	John O. King	Director	1928	1929
Benjamin N. Hill	Director	William P. King	Director	1929	1930
Richard O. Hill	Director	Thomas Q. King	Director	1930	1931
George P. Hill	Director	Charles R. King	Director	1931	1932
John Q. Hill	Director	James S. King	Director	1932	1933
Robert R. Hill	Director	Thomas T. King	Director	1933	1934
Charles S. Hill	Director	George U. King	Director	1934	1935
David T. Hill	Director	Henry V. King	Director	1935	1936
Edward U. Hill	Director	Frank W. King	Director	1936	1937
Matthew V. Hill	Director	Charles X. King	Director	1937	1938
James W. Hill	Director	John Y. King	Director	1938	1939
Benjamin X. Hill	Director	William Z. King	Director	1939	1940
Richard Y. Hill	Director	Thomas A. King	Director	1940	1941
George Z. Hill	Director	Charles B. King	Director	1941	1942
John A. Hill	Director	James C. King	Director	1942	1943
Robert B. Hill	Director	Thomas D. King	Director	1943	1944
Charles C. Hill	Director	George E. King	Director	1944	1945
David D. Hill	Director	Henry F. King	Director	1945	1946
Edward E. Hill	Director	Frank G. King	Director	1946	1947
Matthew F. Hill	Director	Charles H. King	Director	1947	1948
James G. Hill	Director	John I. King	Director	1948	1949
Benjamin H. Hill	Director	William J. King	Director	1949	1950
Richard I. Hill	Director	Thomas K. King	Director	1950	1951
George J. Hill	Director	Charles L. King	Director	1951	1952
John K. Hill	Director	James M. King	Director	1952	1953
Robert L. Hill	Director	Thomas N. King	Director	1953	1954
Charles M. Hill	Director	George O. King	Director	1954	1955
David N. Hill	Director	Henry P. King	Director	1955	1956
Edward O. Hill	Director	Frank Q. King	Director	1956	1957
Matthew P. Hill	Director	Charles R. King	Director	1957	1958
James Q. Hill	Director	John S. King	Director	1958	1959
Benjamin R. Hill	Director	William T. King	Director	1959	1960
Richard S. Hill	Director	Thomas U. King	Director	1960	1961
George T. Hill	Director	Charles V. King	Director	1961	1962
John U. Hill	Director	James W. King	Director	1962	1963
Robert V. Hill	Director	Thomas X. King	Director	1963	1964
Charles W. Hill	Director	George Y. King	Director	1964	1965
David X. Hill	Director	Henry Z. King	Director	1965	1966
Edward Y. Hill	Director	Frank A. King	Director	1966	1967
Matthew Z. Hill	Director	Charles B. King	Director	1967	1968
James A. Hill	Director	John C. King	Director	1968	1969
Benjamin B. Hill	Director	William D. King	Director	1969	1970
Richard C. Hill	Director	Thomas E. King	Director	1970	1971
George D. Hill	Director	Charles F. King	Director	1971	1972
John E. Hill	Director	James G. King	Director	1972	1973
Robert F. Hill	Director	Thomas H. King	Director	1973	1974
Charles G. Hill	Director	George I. King	Director	1974	1975
David H. Hill	Director	Henry J. King	Director	1975	1976
Edward I. Hill	Director	Frank K. King	Director	1976	1977
Matthew J. Hill	Director	Charles L. King	Director	1977	1978
James K. Hill	Director	John M. King	Director	1978	1979
Benjamin L. Hill	Director	William N. King	Director	1979	1980
Richard M. Hill	Director	Thomas O. King	Director	1980	1981
George N. Hill	Director	Charles P. King	Director	1981	1982
John O. Hill	Director	James Q. King	Director	1982	1983
Robert P. Hill	Director	Thomas R. King	Director	1983	1984
Charles Q. Hill	Director	George S. King	Director	1984	1985
David R. Hill	Director	Henry T. King	Director	1985	1986
Edward S. Hill	Director	Frank U. King	Director	1986	1987
Matthew T. Hill	Director	Charles V. King	Director	1987	1988
James U. Hill	Director	John W. King	Director	1988	1989
Benjamin V. Hill	Director	William X. King	Director	1989	1990
Richard W. Hill	Director	Thomas Y. King	Director	1990	1991
George X. Hill	Director	Charles Z. King	Director	1991	1992
John Y. Hill	Director	James A. King	Director	1992	1993
Robert Z. Hill	Director	Thomas B. King	Director	1993	1994
Charles A. Hill	Director	George C. King	Director	1994	1995
David B. Hill	Director	Henry D. King	Director	1995	1996
Edward C. Hill	Director	Frank E. King	Director	1996	1997
Matthew D. Hill	Director	Charles F. King	Director	1997	1998
James E. Hill	Director	John G. King	Director	1998	1999
Benjamin F. Hill	Director	William H. King	Director	1999	2000
Richard G. Hill	Director	Thomas I. King	Director	2000	2001
George H. Hill	Director	Charles J. King	Director	2001	2002
John I. Hill	Director	James K. King	Director	2002	2003
Robert J. Hill	Director	Thomas L. King	Director	2003	2004
Charles K. Hill	Director	George M. King	Director	2004	2005
David L. Hill	Director	Henry N. King	Director	2005	2006
Edward M. Hill	Director	Frank O. King	Director	2006	2007
Matthew N. Hill	Director	Charles P. King	Director	2007	2008
James O. Hill	Director	John Q. King	Director	2008	2009
Benjamin P. Hill	Director	William R. King	Director	2009	2010
Richard Q. Hill	Director	Thomas S. King	Director	2010	2011
George R. Hill	Director	Charles T. King	Director	2011	2012
John S. Hill	Director	James U. King	Director	2012	2013
Robert T. Hill	Director	Thomas V. King	Director	2013	2014
Charles U. Hill	Director	George W. King	Director	2014	2015
David V. Hill	Director	Henry X. King	Director	2015	2016
Edward W. Hill	Director	Frank Y. King	Director	2016	2017
Matthew X. Hill	Director	Charles Z. King	Director	2017	2018
James Y. Hill	Director	John A. King	Director	2018	2019
Benjamin Z. Hill	Director	William B. King	Director	2019	2020
Richard A. Hill	Director	Thomas C. King	Director	2020	2021
George B. Hill	Director	Charles D. King	Director	2021	2022
John C. Hill	Director	James E. King	Director	2022	2023
Robert D. Hill	Director	Thomas F. King	Director	2023	2024
Charles E. Hill	Director	George G. King	Director	2024	2025
David F. Hill	Director	Henry H. King	Director	2025	2026
Edward G. Hill	Director	Frank I. King	Director	2026	2027
Matthew H. Hill	Director	Charles J. King	Director	2027	2028
James I. Hill	Director	John K. King	Director	2028	2029
Benjamin J. Hill	Director	William L. King	Director	2029	2030
Richard K. Hill	Director	Thomas M. King	Director	2030	2031
George L. Hill	Director	Charles N. King	Director	2031	2032
John M. Hill	Director	James O. King	Director	2032	2033
Robert N. Hill	Director	Thomas P. King	Director	2033	2034
Charles O. Hill	Director	George Q. King	Director	2034	2035
David P. Hill	Director	Henry R. King	Director	2035	2036
Edward Q. Hill	Director	Frank S. King	Director	2036	2037
Matthew R. Hill	Director	Charles T. King	Director	2037	2038
James S. Hill	Director	John U. King	Director	2038	2039
Benjamin T. Hill	Director	William V. King	Director	2039	2040
Richard U. Hill	Director	Thomas W. King	Director	2040	2041
George V. Hill	Director	Charles X. King	Director	2041	2042
John W. Hill	Director	James Y. King	Director	2042	2043
Robert X. Hill	Director	Thomas Z. King	Director	2043	2044
Charles Y. Hill	Director	George A. King	Director	2044	2045
David Z. Hill	Director	Henry B. King	Director	2045	2046
Edward A. Hill	Director	Frank C. King	Director	2046	2047
Matthew B. Hill	Director	Charles D. King	Director	2047	2048
James C. Hill	Director	John E. King	Director	2048	2049
Benjamin D. Hill	Director	William F. King	Director	2049	2050
Richard E. Hill	Director	Thomas G. King	Director	2050	2051
George F. Hill	Director	Charles H. King	Director	2051	2052
John G. Hill	Director	James I. King	Director	2052	2053
Robert H. Hill	Director	Thomas J. King	Director	2053	2054
Charles I. Hill	Director	George K. King	Director	2054	2055
David J. Hill	Director	Henry L. King	Director	2055	2056
Edward K. Hill	Director	Frank M. King	Director	2056	2057
Matthew L. Hill	Director	Charles N. King	Director	2057	2058
James M. Hill	Director	John O. King	Director	2058	2059
Benjamin N. Hill	Director	William P. King	Director	2059	2060
Richard O. Hill	Director	Thomas Q. King	Director	2060	2061
George P. Hill	Director	Charles R. King	Director	2061	2062
John Q. Hill	Director	James S. King	Director	2062	2063
Robert R. Hill	Director	Thomas T. King	Director	2063	2064
Charles S. Hill	Director	George U. King	Director	2064	2065
David T. Hill	Director	Henry V. King	Director	2065	2066
Edward U. Hill	Director	Frank W. King	Director	2066	2067
Matthew V. Hill	Director	Charles X. King	Director	2067	2068
James W. Hill	Director	John Y. King	Director	2068	2069
Benjamin X. Hill	Director	William Z. King	Director	2069	2070
Richard Y. Hill	Director	Thomas A. King	Director	2070	2071
George Z. Hill	Director	Charles B. King	Director	2071	2072
John A. Hill	Director	James C. King	Director	2072	2073
Robert B. Hill	Director	Thomas D. King	Director	2073	2074
Charles C. Hill	Director	George E. King	Director	2074	2075
David D. Hill	Director	Henry F. King	Director	2075	2076
Edward E. Hill	Director	Frank G. King	Director	2076	2077
Matthew F. Hill	Director	Charles H. King	Director	2077	2078
James G. Hill	Director	John I. King	Director	2078	2079
Benjamin H. Hill	Director	William J. King	Director	2079	2080
Richard I. Hill	Director	Thomas K. King	Director	2080	2081
George J. Hill	Director	Charles L. King	Director	2081	2082
John K. Hill	Director	James M. King	Director	2082	2083
Robert L. Hill	Director	Thomas N. King	Director	2083	2084
Charles M. Hill	Director	George O. King	Director	2084	2085
David N. Hill	Director	Henry P. King	Director	2085	2086
Edward O. Hill	Director	Frank Q. King	Director	2086	2087
Matthew P. Hill	Director	Charles R. King	Director	2087	2088
James Q. Hill	Director	John S. King	Director	2088	2089
Benjamin R. Hill	Director	William T. King	Director	2089	2090
Richard S. Hill	Director	Thomas U. King	Director	2090	2091
George T. Hill	Director	Charles V. King	Director	2091	2092
John U. Hill	Director	James W. King	Director	2092	2093
Robert V. Hill	Director	Thomas X. King	Director	2093	2094
Charles W. Hill	Director	George Y. King	Director	2094	2095
David X. Hill	Director	Henry Z. King	Director	2095	2096
Edward Y. Hill	Director	Frank A. King	Director	2096	2097
Matthew Z. Hill	Director	Charles B. King	Director	2097	2098
James A. Hill	Director	John C. King	Director	2098	2099
Benjamin B. Hill	Director	William D. King	Director	2099	2100

THE BOARD OF DIRECTORS OF THE CORPORATION OF THE CITY OF NEW YORK

# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
HYALITE CREEK					
Bozeman (near)(15)	33.8	90	Apr-Sept		37.4
	29.5	91	Apr-July		32.5
GALLATIN RIVER					
Logan (at)	370	78	Apr-Sept		473
	315	78	Apr-July		401
MISSOURI RIVER					
Toston (at)(16)	1600	76	Apr-Sept	2784	2105
	1370	75	Apr-July	2404	1836
SHEEP CREEK					
White Sulphur Springs (near)	11.5	62	Apr-Sept		18.4
	9.6	60	Apr-July		16.0
SUN RIVER					
Gibson Dam (at)(17)	350	58	Apr-Sept	749	604
	315	57	Apr-July	685	555
BELT CREEK					
Monarch (near)	55.0	50	Apr-Sept		109
	50.0	50	Apr-July		100
MISSOURI RIVER					
Fort Benton (at)(18)	2000	60	Apr-Sept		3321
	1635	58	Apr-July		2834
TWO MEDICINE CREEK					
Browning (near)(19)	155	61	Apr-Sept		256
	145	59	Apr-July		245
BADGER CREEK					
Browning (near)	83.0	62	Apr-Sept		133
	70.0	60	Apr-July		116
CUT BANK CREEK					
Cut Bank (at)	66.0	55	Apr-Sept		120
	60.0	54	Apr-July		111
MARIAS RIVER					
Shelby (near)(20)	260	43	Apr-Sept		604
	240	41	Apr-July		581

(15) Adjusted for storage in Middle Creek Reservoir.

(16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.

(17) Adjusted for storage in Gibson Reservoir and diversions.

(18) Adjusted for storage in Canyon Ferry Reservoir.

(19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.

(20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances and Swift Reservoirs.

Sl. No.	Name of the Candidate	Roll No.	Grade	Remarks
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...

Signature of the Teacher: \_\_\_\_\_  
 Signature of the Head of the Institution: \_\_\_\_\_  
 Date: \_\_\_\_\_



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
MISSOURI RIVER					
Virgelle (at)(21)	2250	55	Apr-Sept		4036
	1850	53	Apr-July		3511
SOUTH FORK JUDITH RIVER					
Utica (near)	5.6	45	Apr-Sept		12.5
	5.0	43	Apr-July		11.7
MISSOURI RIVER					
Landusky (near)(21)	2450	55	Apr-Sept		4484
	2000	51	Apr-July		3889
NORTH FORK MUSSELSHELL RIVER					
Delpine (near)	2.5	46	Apr-Sept		5.5
	2.0	43	Apr-July		4.7
SOUTH FORK MUSSELSHELL RIVER					
Martinsdale (above)	23.0	50	Apr-Sept		46.2
	22.5	51	Apr-July		44.0
MISSOURI RIVER					
Fort Peck Dam (below)(22)	2100	49	Apr-Sept		4312
	1850	48	Apr-July		3824
MILK RIVER					
Eastern Crossing (at)	195	74	Apr-Sept		281
MISSOURI RIVER					
Wolf Point (near)(22)	2350	50	Apr-Sept		4683
	1950	47	Apr-July		4168
MISSOURI RIVER					
Williston, N.D. (near)(29)	6500	59	Apr-Sept		10998
	5800	59	Apr-July		9823

## SASKATCHEWAN RIVER BASIN

ST. MARY RIVER					
Babb (near)(30)	390	79	Apr-Sept		492
	330	77	Apr-July		427

- (21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.  
 (22) Adjusted for storage in Canyon Ferry, Tiber and Fort Peck Reservoirs.  
 (29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.  
 (30) Adjusted for storage in Lake Sherburne.



# STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average

## YELLOWSTONE RIVER BASIN

YELLOWSTONE RIVER					
Corwin Springs (at)	1560	83	Apr-Sept	2349	1880
	1300	83	Apr-July	1952	1575
YELLOWSTONE RIVER					
Livingston (near)	1720	81	Apr-Sept		2122
	1420	80	Apr-July		1769
BOULDER RIVER					
Big Timber (at)	255	73	Apr-Sept		347
	240	73	Apr-July		327
STILLWATER RIVER					
Absarokee (near) (25)	440	79	Apr-Sept		558
	375	79	Apr-July		474
CLARKS FORK RIVER					
Belfry (near)	455	78	Apr-Sept		582
	420	79	Apr-July		530
ROCK CREEK					
Red Lodge (near)	84	77	Apr-Sept	129	106
	65	79	Apr-July	92.8	82.1
YELLOWSTONE RIVER					
Billings (at)	2950	75	Apr-Sept	4532	3944
	2540	75	Apr-July	3650	3400
BIG HORN RIVER					
St. Xavier (near) (26)	1100	64	Apr-Sept	2153	1719
	1050	64	Apr-July	1861	1625
LITTLE BIG HORN RIVER					
Lodgegrass (near) (28)	80	65	Apr-Sept		123
	70	64	Apr-July		109
YELLOWSTONE RIVER					
Miles City (at) (27)	4150	71	Apr-Sept		5850
	3650	71	Apr-July		5177
YELLOWSTONE RIVER					
Sidney (near) (27)	4000	66	Apr-Sept		6069
	3650	67	Apr-July		5454

(25) Adjusted for storage in Mystic Lake.

(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake and Yellowtail Reservoirs.

(27) Adjusted for storage in Buffalo Bill, Boysen and Yellowtail Reservoirs.

(28) Sum Little Big Horn below Pass Creek and Lodgegrass Creek near Wyola.





## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

COLUMBIA RIVER BASINKOOTENAI RIVER

Bald Eagle Peak	5700	3/30	115	48.4	85.2	-
Banfield Mountain	5600	3/29	49	19.0	35.6	-
Banfield Mountain Pillow	5600	3/29	SP	16.5	30.3	-
Baree Creek	5500	4/02	77	31.1	68.9	49.6
Baree Midway	4600	4/02	62	24.4	52.3	33.8
Baree Trail	3800	4/02	0	0.0	8.8	7.8
Bear Mountain	5400	3/28	112	45.6	80.5	-
Bristow Creek	3900	3/29	21	8.0	11.9	-
Brush Creek	5000	3/27	28	8.1	14.5	13.1
Brush Creek Timber	5000	3/27	24	7.0	12.5	11.7
Cedar Grove	4100	3/30	15	5.7	17.5	-
Davis Creek	5400	3/27	59	22.3	32.6	-
Fernie	3500	3/30	11	3.3	10.5	8.8
Field	4200	4/01	17	4.7	9.7	5.8
Garver Creek	4250	3/27	28	10.3	10.9	-
Garver Creek Pillow	4250				9.1	-
Glacier	4100	3/29	67	26.1	45.7	28.7
Graves Creek	4300	3/26	38	13.1	26.7	19.5
Gray Creek	5100	3/29	60	18.5	27.1	19.2
Halverson Creek	4850	3/28	87	37.9	61.4	-
Hawkins Lake	6450	3/27	76	28.5	43.9	-
Hawkins Lake Pillow	6450	3/27	SP	25.0	42.2	-
Keeler Creek	3300	3/28	0	0.0	11.7	-
Kicking Horse	5400	4/01	42	13.4	21.5	15.2
Kimberley	3800	3/28	17	4.2	8.6	7.5
Lost Soul	4800	3/29	35	12.1	18.3	-
Marble Canyon	5000	3/29	44	12.9	16.1	13.2
Morrissey Ridge	6100				44.1	29.4
New Fernie	4100	3/30	30	10.4	22.8	15.8
Poorman Creek	5100	3/30	63	24.5	51.1	-
Poorman Creek Pillow	5100	3/30	SP	21.4	48.3	-
Red Mountain	6000	3/29	47	16.0	28.3	20.3
Sinclair Pass	4500	3/30	25	5.8	8.7	5.2
Stahl Peak	6050	3/26	97	37.2	53.6	-
Sullivan Mine	5100	3/30	42	12.9	20.0	14.6
Upper Elk River	4400	3/28	11	4.2	7.4	7.4
Weasel Divide	5450	3/26	77	29.3	51.2	35.3





# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

## FLATHEAD RIVER

Bassoo Peak	5150	3/29	14	4.4	15.2	12.2
Beaver Lake	5900	4/03	48	16.3	38.3	24.0
Big Creek	6750	3/28	95	37.5	65.2	46.7
Camp Misery	6400	3/28	110	42.4	66.4	46.8
Desert Mountain	5600	3/29	40	13.2	23.3	16.3
Fatty Creek	5500	3/28	55	17.5	31.4	22.8
Griffin Creek Divide	5150	3/29	29	8.6	16.6	12.6
Gunsight Lake	6300	4/03	75	29.9	56.6	41.0
Hell Roaring Divide	5770	3/30	67	26.4	45.7	33.1
Holbrook	4530	3/31	9	3.7	13.7	10.4
Kishenehn	3890	3/30	15	4.6	9.4	9.6
Logan Creek	4300	3/27	13	3.8	8.6	8.6
Marias Pass	5250	3/27	42	10.6	29.4	18.8
Mineral Creek	4000	4/01	36	11.9	26.6	21.4
Noisy Creek	3600	3/28	0	0.0	1.8	-
North Fork Jocko	6330	3/29	84	32.3	65.5	47.2
Spotted Bear Mountain	7000	4/03	30	10.6	21.0	15.1
Tr nkus Lake	6100	4/03	95	39.6	54.3	44.2
Twin Creeks	3580	4/03	0	0.0	15.5	11.4
Upper Holland Lake	6200	4/03	70	25.6	54.3	36.1

## CLARK FORK RIVER

Black Pine	7100	3/30	33	9.9	24.4	14.1
Black Pine Pillow	7100	3/30	SP	10.2	25.0	14.1
Combination	5600	3/30	17	4.5	9.5	-
Combination Pillow	5600	3/30	SP	5.1	-	-
Copper Bottom	5200	3/30	14	6.4	20.4	-
Copper Camp	6950	3/30	58	20.1	56.0	-
Copper Creek	5700	3/30	27	9.2	28.2	15.1
Copper Lake Creek	6100	3/30	45	14.6	43.0	-
Cotter Mine	6250	Course Destroyed			34.7	17.2
Coyote Hill	4200	3/28	8	3.2	15.2	10.4
El Dorado Mine	7800	3/28	61	17.2	34.2	21.2
Fred Burr Pass	8000	3/29	60	17.9	43.8	26.6
Gold Creek Lake	7200	3/28	51	13.9	25.9	15.9
Heart Lake Trail	4800	3/28	27	9.2	39.4	23.0
Hoodoo Basin	6000	3/28	93	35.4	80.8	54.5
Hoodoo Basin Pillow	6000	3/30	SP	34.8	80.7	54.0
Hoodoo Creek	5900	3/28	88	33.4	78.3	50.6
Intergaard	6450	3/31	29	7.3	13.5	8.5
Lookout	5250	3/30	59	20.8	34.5	38.4
Lubrecht Flume	4680	3/30	5	1.8	8.4	-
Lubrecht Flume Pillow	4680	3/30	SP	1.8	10.4	-

# THE HISTORY OF THE

PROGRESS OF THE

ARTS AND MANUFACTURES OF GREAT BRITAIN, FROM THE EARLIEST PERIODS TO THE PRESENT TIME. BY JAMES MILL, ESQ. VOL. I. PART I. CHAP. I. OF THE EARLIEST PERIODS OF THE HISTORY OF GREAT BRITAIN.

THE EARLIEST PERIODS OF THE HISTORY OF GREAT BRITAIN, FROM THE FIRST SETTLEMENT OF THE ISLAND BY THE CELTS, TO THE CONQUEST BY THE ANGLES.

# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

## CLARK FORK RIVER (Continued)

Lubrecht Forest No. 3	5450	3/28	15	4.6	11.4	7.4
Lubrecht Forest No. 4	4650	3/28	1	0.5	2.8	2.9
Lubrecht Forest No. 6	4040	3/28	0	0.0	2.1	3.0
Lubrecht Hydroplot	4200	3/30	0	0.0	5.8	-
North Fork Elk Creek	6250	3/30	28	8.7	22.3	-
North Fork Elk Creek Pillow	6250	3/30	SP	8.4	23.6	-
Peterson Meadows	7200	3/27	39	7.9	17.3	-
Peterson Meadows Pillow	7200	3/27	SP	9.0	-	-
Red Lion	7100	3/29	40	10.9	27.3	16.6
Skalkaho Summit	7260	3/29	57	18.5	44.6	26.4
Slide Rock Mountain	7100	3/29	43	12.0	27.2	15.4
Southern Cross	6500	3/31	20	5.7	8.5	7.4
Storm Lake	7780	3/27	48	10.4	19.0	14.6
Stuart Mill	6500	3/31	23	6.0	10.0	7.1
Stuart Mountain	7400	3/31	66	23.9	44.3	32.2
TV Mountain	6800	3/29	44	14.0	32.9	18.5

## BITTERROOT RIVER

Ambrose	6480	3/31	41	11.4	20.6	13.7
East Fork Ranger Station	5400	3/27	13	3.8	9.4	7.1
Gibbons Pass	7100	3/28	67	21.0	34.4	23.0
Kit Carson	5020	3/26	20	5.4	13.2	8.6
Lolo Pass	5230	3/29	54	20.2	52.3	33.8
Lost Horse	5940	3/29	65	23.6	56.1	33.0
Moose Creek	6200	4/02	48	12.7	25.4	16.2
Nez Perce Camp	5580	3/26	32	9.4	25.5	15.2
Nez Perce Pass	6570	3/26	39	11.8	27.2	16.8
Saddle Mountain	7940	3/27	66	19.6	38.3	25.8
Saddle Mountain Pillow	7940	3/27	SP	20.0	38.3	-
Savage Pass	6600	3/29	54	19.7	42.9	28.6
Twelvemile Creek	5600	3/29	41	14.3	36.3	-
Twelvemile Creek Pillow	5600	3/29	SP	12.1	31.0	-
Twin Lakes	6510	3/29	80	28.8	67.4	45.0
Twin Lakes Pillow	6400	3/29	SP	28.0	63.8	-

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the company to have a clear and concise system of record-keeping to ensure that all financial data is properly documented and accessible. This includes maintaining a detailed ledger of all income and expenses, as well as a system for tracking assets and liabilities. The second part of the paper focuses on the importance of regular financial reviews. It is crucial for the company to conduct a thorough review of its financial statements on a regular basis to identify any potential issues or areas for improvement. This review should include a comparison of actual results against budgeted figures, as well as an analysis of the company's overall financial performance. The final part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the company to have a clear and concise system of record-keeping to ensure that all financial data is properly documented and accessible. This includes maintaining a detailed ledger of all income and expenses, as well as a system for tracking assets and liabilities.



## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

MISSOURI RIVER BASINBEAVERHEAD RIVER

Bloody Dick	7600	3/29	35	8.6	18.7	11.1
Camp Creek	6800	3/28	33	8.7	9.9	9.0
Carter Creek	7400	4/01	34	8.4	7.4	5.8
Dad Creek Lake	8400	4/04	65	12.1	19.4	13.0
Elk Horn Springs	7800	3/30	25	5.3	14.9	9.8
Gold Stone	8100	3/29	40	10.4	24.4	14.8
Kilgore	6200	3/29	34	9.7	8.9	8.9
Lakeview Canyon	6930	3/30	35	9.4	15.7	11.5
Lakeview Ridge	7400	3/30	30	8.4	12.2	10.0
Lemhi Pass	7480	3/28	32	7.0	10.3	8.5
Lemhi Ridge	8100	3/28	39	8.2	15.8	-
Sawtelle Mountain	8715	3/30	87	29.3	40.3	-
Trail Creek	7090	3/28	30	6.4	11.8	8.4
White Elephant	7700	3/30	63	21.0	-	-
White Pine Ridge	8850	4/04	33	6.8	8.7	5.2

RUBY RIVER

Branham Lakes	8850	3/31	74	23.0	36.8	-
Clover Meadow	8600	4/04	58	15.9	22.1	16.0
Divide	7800	4/04	38	9.8	14.3	9.7
Middle Mill Creek	7850	3/31	48	13.3	20.4	-
Notch	8500	4/04	52	13.9	22.0	13.6
Smuggler Mine	6960	3/31	33	8.1	10.4	-

BIG HOLE RIVER

Abundance Lake	8800	4/04	66	16.5	30.4	19.8
Calvert Creek	6450	3/30	30	7.6	20.0	-
Darkhorse Lake	8600	4/04	64	20.4	42.3	27.0
Foolhen	8280	4/04	47	12.3	26.6	17.8
Jahnke Creek	7340	3/29	33	8.2	17.9	9.9
Jahnke Lake Trail	7200	3/29	33	8.0	19.2	-
Mudd Lake	7650	3/30	46	14.0	31.8	-
Palisade Creek	8250	3/30	65	22.3	46.6	-
Slag-A-Melt Lake	8750	4/04	65	20.8	37.9	-

JEFFERSON RIVER

Berry Meadow	7300	3/27	23	5.0	12.5	7.6
Copper Mountain	7700	3/30	36	9.0	13.6	11.3
Nez Perce Creek	6500	3/30	22	5.7	7.9	-
Picnic Grounds	6500	3/31	16	3.3	6.2	4.6
Pipestone Pass	7200	3/27	19	4.2	7.1	6.0
Rocker Peak	8000	3/27	46	10.8	22.7	-
Rocker Peak Pillow	8000	3/27	SP	10.8	21.5	-
Uncle Sam Gulch	6500	3/27	22	5.2	12.2	-



# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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NAME	Elevation				Last Year	Average

## MADISON RIVER

Big Springs	6500	3/30	53	18.1	27.1	20.8
Black Bear	7950	3/28	96	34.5	55.0	-
Black Bear Pillow	7950	3/28	SP	30.9	49.6	-
Black Canyon	7850	3/26	83	30.6	37.6	34.6
Black Moose	8125	3/26	89	36.2	44.6	40.4
Call Road	8050	4/04	42	10.7	15.0	10.8
Four Mile	6900	3/26	37	8.4	9.2	8.0
Hebgen Dam	6550	4/03	33	9.2	9.2	11.3
Island Park	6315	3/30	43	13.2	16.3	15.6
Jack Creek	7500	3/27	28	7.2	3.3	6.0
Lake Creek	6100	3/27	29	7.2	6.8	7.8
Latham Springs	7650	3/26	82	31.4	36.0	33.5
Lower Twin	7900	3/26	62	17.6	26.9	19.0
Lucky Dog	6900	3/26	64	22.8	29.6	24.8
Madison Plateau	7750	3/28	60	19.2	31.1	-
Madison Plateau Pillow	7750	3/28	SP	19.1	32.5	-
Norris Basin	7500	3/28	31	8.3	14.4	10.1
North Meadow	7500	3/26	40	8.2	11.5	7.9
Potomageton Park	7150	3/30	39	11.2	15.0	15.4
Sentinel Creek	8300	3/30	62	20.0	28.8	23.6
Targhee Pass	7000	3/30	41	10.5	16.5	-
Tepee Creek	8000	3/27	46	12.2	20.2	13.4
Tepee Creek Pillow	8000	3/27	SP	10.5	16.4	-
Valley View	6500	3/30	39	10.8	17.6	15.9
West Yellowstone	6700	4/04	34	10.2	14.8	10.8
West Yellowstone Pillow	6700	3/31	SP	7.4	10.6	8.6
Whiskey Creek	6800	3/28	54	16.5	25.2	-
Whiskey Creek Pillow	6800	3/28	SP	14.3	23.8	-

## GALLATIN RIVER

Arch Falls	7350	3/28	52	11.2	12.9	12.6
Bear Basin	8150	3/26	59	16.4	21.0	20.2
Bridger Bowl	7250	3/27	52	17.0	32.4	27.6
Bridger Bowl Pillow	7250	3/27	SP	17.1	30.5	26.6
Carrot Basin	9000	4/02	91	32.8	45.6	-
Devils Slide	8100	3/28	68	17.5	23.6	22.4
Hood Meadow	6600	3/28	46	11.3	11.0	10.9
Lick Creek	6860	3/28	46	10.7	8.0	10.2
Lick Creek Pillow	6860	3/28	SP	8.9	7.0	10.1
Little Park	7400	3/26	45	10.8	17.3	15.4
Maynard Creek	6210	3/27	45	14.8	20.5	16.7
Maynard Creek Pillow	6210	3/27	SP	7.9	11.8	11.4
New World	6700	3/27	42	11.2	9.8	11.0
Shower Falls	8100	3/28	76	21.3	28.0	26.8
Shower Falls Pillow	8100	3/28	SP	19.6	27.0	23.5
Twenty-One Mile	7150	3/29	41	12.2	21.2	17.4





# SNOW

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NAME	Elevation				Last Year	Average

## MISSOURI RIVER (Main Stem)

Boulder Mountain	7950	3/26	45	12.6	28.6	16.8
Chessman Reservoir	6200	4/03	20	4.5	3.8	4.2
Deadman Creek	6450	3/28	29	6.8	15.9	11.4
Deadman Creek Pillow	6450	3/28	SP	5.6	13.4	-
Elk Peak	8000	3/27	39	10.4	21.1	16.9
Frohner Meadows	6480	3/26	28	6.9	11.8	-
Frohner Meadows Pillow	6480	3/26	SP	7.2	-	-
Grasshopper	7000	3/27	25	5.5	5.2	5.4
Kings Hill	7500	3/30	36	8.7	21.0	13.2
Stemple Pass	6600	4/04	28	6.6	16.4	10.8
Ten Mile Lower	6600	4/02	30	6.5	9.0	6.9
Ten Mile Middle	6800	4/02	42	9.6	16.6	10.8
Ten Mile Upper	8000	4/02	50	10.9	19.6	14.0

## SUN-TETON-MARIAS RIVERS

Badger Pass	6900	4/03	72	26.0	57.7	37.2
Blue Lake	5900	4/03	58	17.6	40.4	-
Cabin Creek	5200	3/28	9	2.6	8.3	7.3
Five Bull	5700	4/03	11	3.6	11.9	6.9
Freight Creek	6000	4/03	29	8.0	25.4	16.6
Goat Mountain	7000	4/01	22	6.6	17.1	11.7
Mount Lockhart	6400	3/26	39	11.8	40.2	-
Mount Lockhart Pillow	6400	3/26	SP	10.6	35.3	-
Waldron	5600	3/26	13	3.5	18.2	-
Waldron Pillow	5600	3/26	SP	6.6	15.5	-
Wrong Creek	5700	3/30	20	6.9	24.7	16.0
Wrong Ridge	6800	3/30	35	10.0	31.6	21.9

## JUDITH RIVER

Avalanche	7100	3/30	63	18.1	22.8	-
Big Snowy	7150	3/30	60	16.5	20.2	-
Crystal Lake	6100	3/30	48	12.6	11.8	12.8
Rock Creek	5600	3/30	34	8.2	7.4	8.8
Spur Park	8100	3/28	49	12.4	33.0	21.5
Spur Park Pillow	8100	3/28	SP	13.6	34.8	-

## MUSSELSHELL RIVER

Daisy Peak	7600	3/27	42	9.2	16.4	-
Eagle Creek	7000	3/28	37	8.8	16.0	-
Forest Lake	6400	3/28	34	8.1	15.0	-
Haymaker	8050	3/29	45	10.5	19.4	-
Johnson Park	6450	3/27	17	4.6	6.8	-





# SNOW

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					Last Year	Average

## MILK RIVER

Bear Paw Ski Area	5200	3/29	5	1.4	4.8	-
Boxelder Creek	5100	3/29	11	2.8	-	-
King Creek Saddle	4550	4/01	0	0.0	0.0	-
King Springs	4150	4/01	0	0.0	0.0	-
Kiwanis Camp	3720	3/29	0	0.0	-	-
Mission Mountain	5050	4/01	0	0.0	0.0	-
Rocky Boy	4700	3/29	0	0.0	1.8	4.5
Rocky Boy Pillow	4700	3/29	SP	1.1	1.8	-
Sucker Creek	3960	3/27	0	0.0	-	-
Taylor Road	4080	3/29	0	0.0	-	-

## ST. MARY RIVER

Hudson Bay Divide	5800	3/30	40	11.1	28.3	18.9
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## ALBERTA - BOW RIVER BASIN

Bow River #1	5100	3/28	26	6.9	15.2	9.4
Chateau Lawn #8	5700	3/28	41	12.8	18.9	11.3
Mirror Lake #6	6600	3/29	36	11.0	22.1	12.7
Mount Eisenhower #10	5000	3/29	20	4.7	11.0	4.9
Upper Pipestone #2	5300	3/28	26	5.9	16.0	9.0

## UPPER YELLOWSTONE RIVER

Bald Ridge	7500	3/29	39	10.2	11.2	12.5
Bots Sots	8000	4/02	56	10.9	-	-
Camp Senia	7890	4/02	47	9.5	9.2	6.4
Canyon	7750	3/28	43	13.0	20.2	16.1
Cooke Station	8150	3/29	46	13.3	26.0	19.0
Crevice Mountain	8400	3/28	28	5.8	10.4	8.8
East Boulder (S)	9250	4/04	77	24.0 <sup>A</sup>	-	-
East Entrance	7000	3/31	28	7.7	10.2	9.7
Fisher Creek	9100	3/29	85	28.6	52.7	36.1
Fisher Creek Pillow	9100	3/29	SP	25.4	50.8	-
Grizzly Peak	8400	3/30	79	17.8	25.6	16.5
Independence	7850	3/31	46	12.6	20.0	18.2
Lake Camp	7850	3/30	32	7.2	11.7	9.9
Lupine Creek	7300	3/31	26	8.1	14.3	10.3
Mill Creek	7500	3/30	44	9.9	10.3	-
Monument Peak	8800	3/31	59	18.6	31.0	24.8
Northeast Entrance	7400	4/04	22	4.8	13.0	9.1
Northeast Entrance Pillow	7350				11.6	8.3

Table 1						Notes	
No.	Name	Age	Sex	Occupation	Religion	Marital Status	Remarks
1	John Doe	25	M	Teacher	Christian	Married	
2	Jane Smith	30	F	Nurse	Catholic	Single	
3	Robert Brown	45	M	Engineer	Protestant	Married	
4	Mary White	20	F	Student	Muslim	Single	
5	David Green	35	M	Doctor	Jewish	Married	
6	Linda Black	28	F	Writer	Buddhist	Single	
7	Michael Red	40	M	Lawyer	Hindu	Married	
8	Sarah Blue	22	F	Artist	Sikh	Single	
9	James Yellow	38	M	Farmer	Christian	Married	
10	Emily Purple	27	F	Teacher	Muslim	Single	
11	Christopher Grey	42	M	Engineer	Jewish	Married	
12	Amanda Pink	24	F	Student	Buddhist	Single	
13	Daniel Brown	32	M	Doctor	Hindu	Married	
14	Michelle Green	29	F	Writer	Sikh	Single	
15	Kevin White	41	M	Lawyer	Christian	Married	
16	Olivia Black	21	F	Artist	Muslim	Single	
17	Benjamin Red	36	M	Farmer	Jewish	Married	
18	Sophia Blue	26	F	Teacher	Buddhist	Single	
19	Lucas Yellow	39	M	Engineer	Hindu	Married	
20	Isabella Purple	23	F	Student	Sikh	Single	

# SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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NAME	Elevation				Last Year	Average

## UPPER YELLOWSTONE RIVER (Continued)

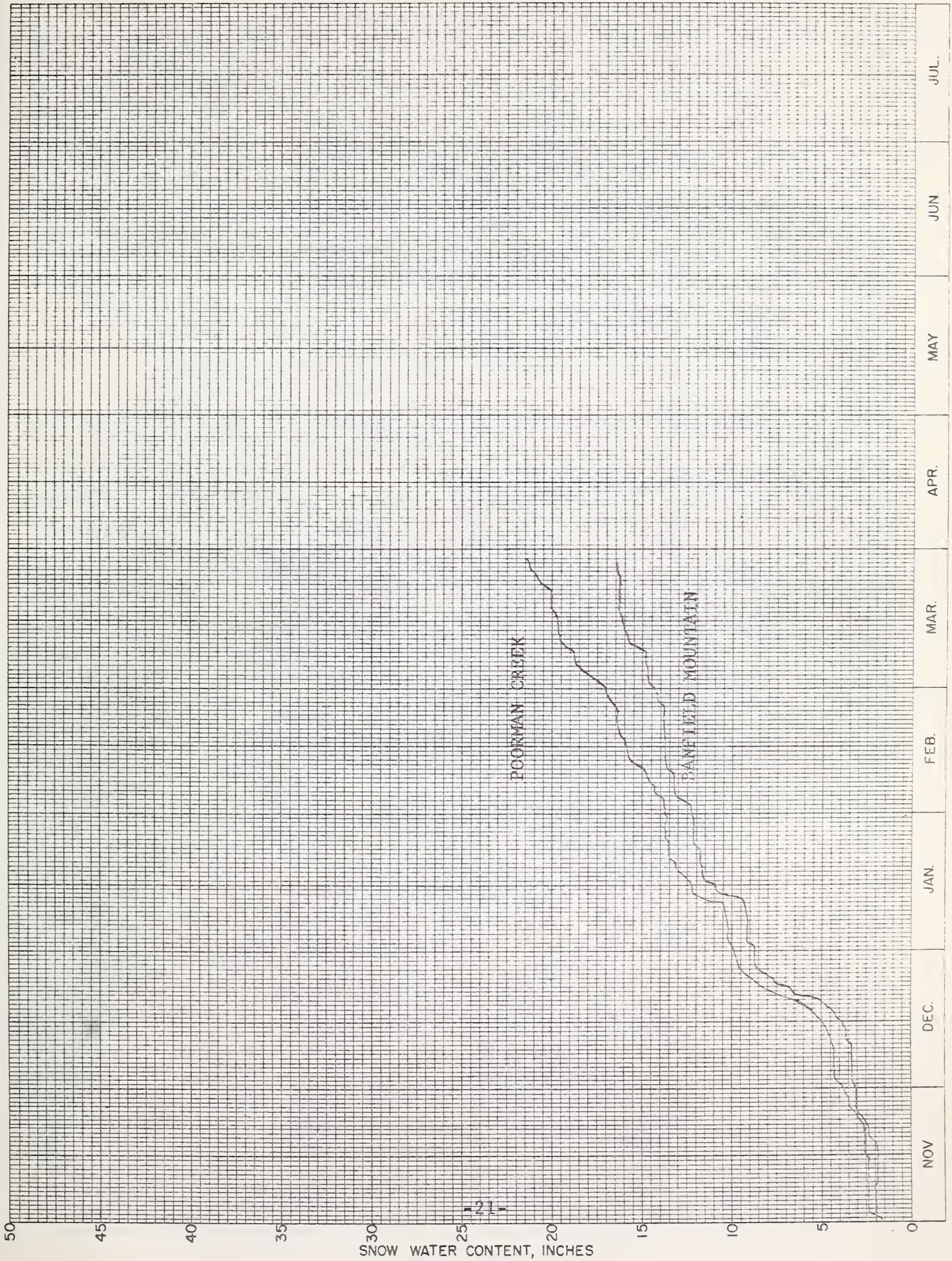
Picket Pin Lower	6200	3/30	16	4.6	-	-
Picket Pin Middle	7250	4/03	40	12.1	-	-
Picket Pin Upper	8100	4/03	74	18.9	-	-
Picket Pin (T)	9450	4/04	63	17.0 <sup>A</sup>	-	-
Placer Basin (F)	8800	4/04	69	18.0 <sup>A</sup>	-	-
Porcupine Ranger Station	6500	3/29	30	7.2	7.8	7.6
Sacajawea	6550	3/27	37	11.0	12.1	13.0
South Fork Shields	8100	3/29	59	17.6	27.7	24.1
Star Lake (M)	9670	4/04	77	27.0 <sup>A</sup>	-	-
Sylvan Pass	7100	4/01	38	10.5	18.2	13.4
Thumb Divide	7900	4/01	52	15.1	26.9	22.5
Timberline Creek	8850	4/02	73	14.0	23.8	15.5
West Rosebud	7500	3/21	33	8.8	14.9	10.6
White Mill	8700	3/29	64	19.5	35.9	25.8
Wolverine	7650	4/02	33	8.9	18.2	-





SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage KOOTENAI



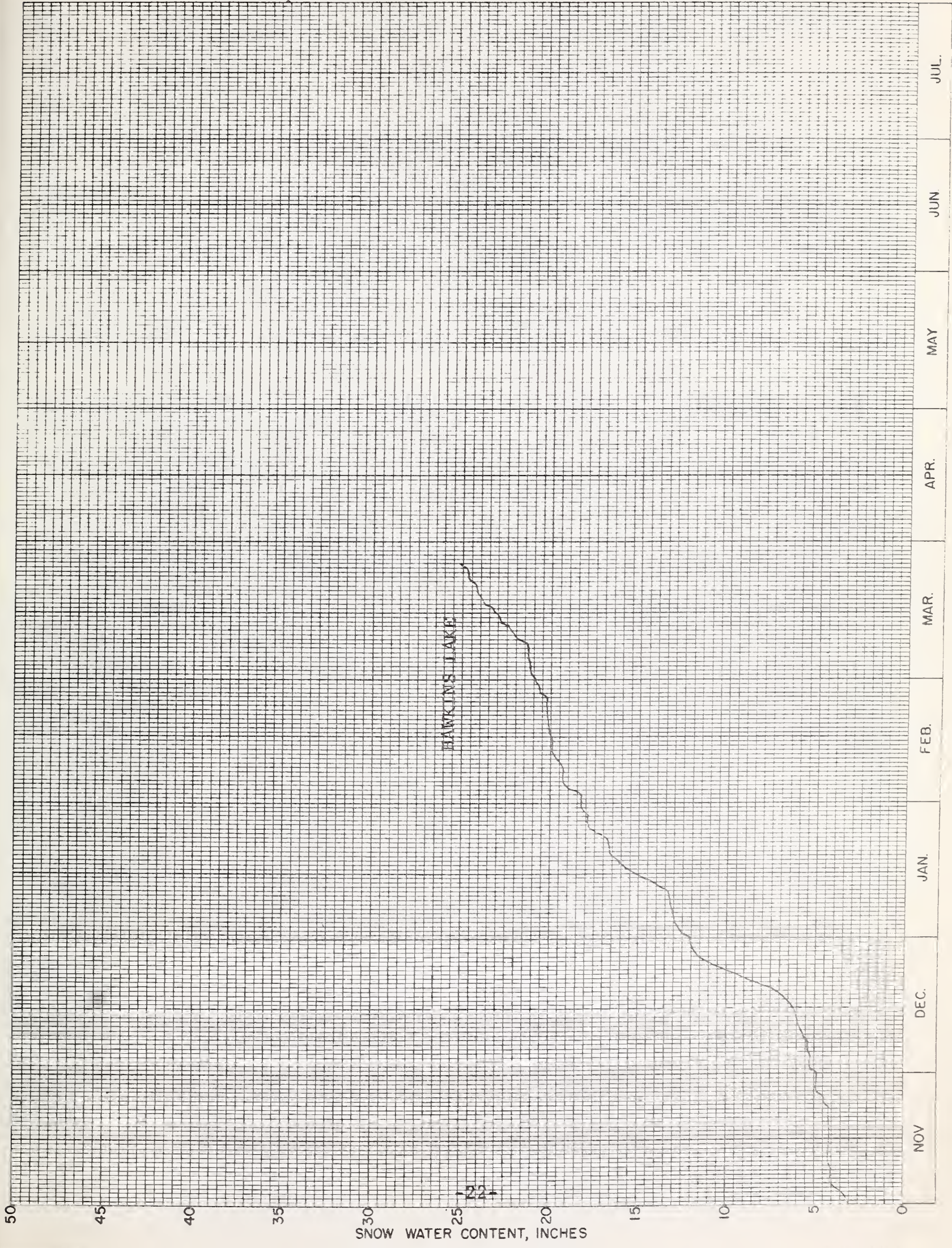






SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage: KOOTENAI  
Garver Creek Pillow inoperative



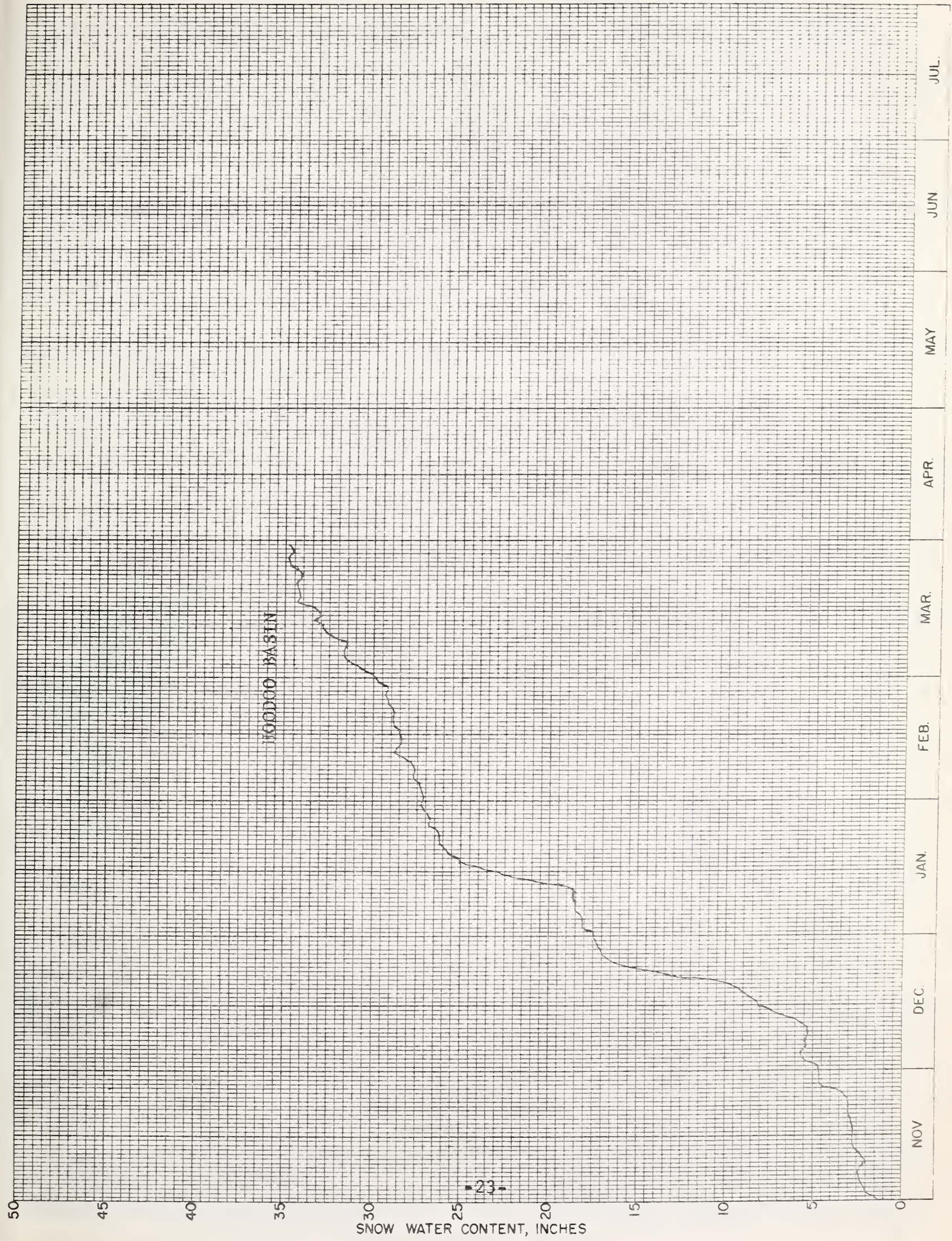






SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage CLARK FORK





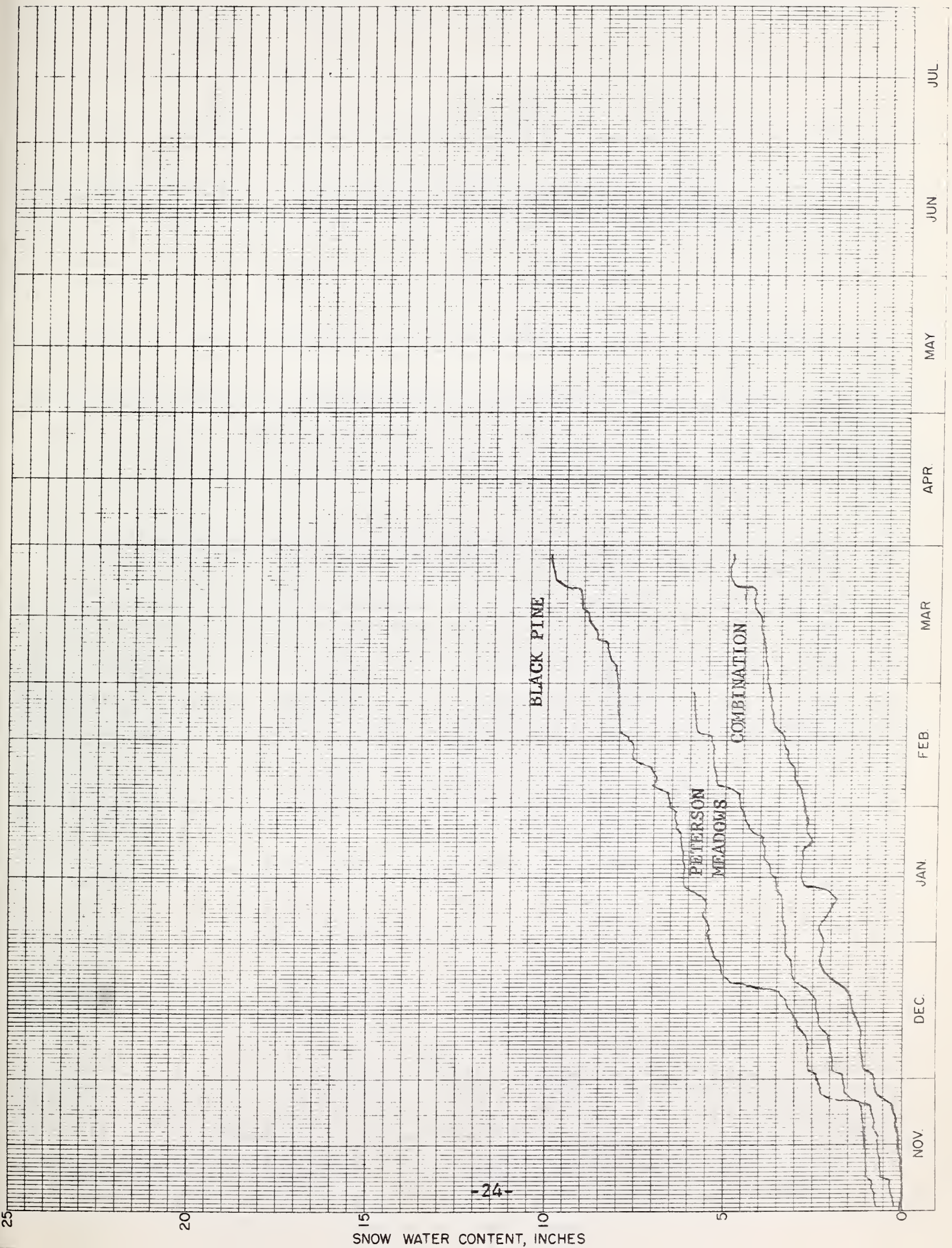


SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_

Elev. \_\_\_\_\_

Drainage. CLARK FORK





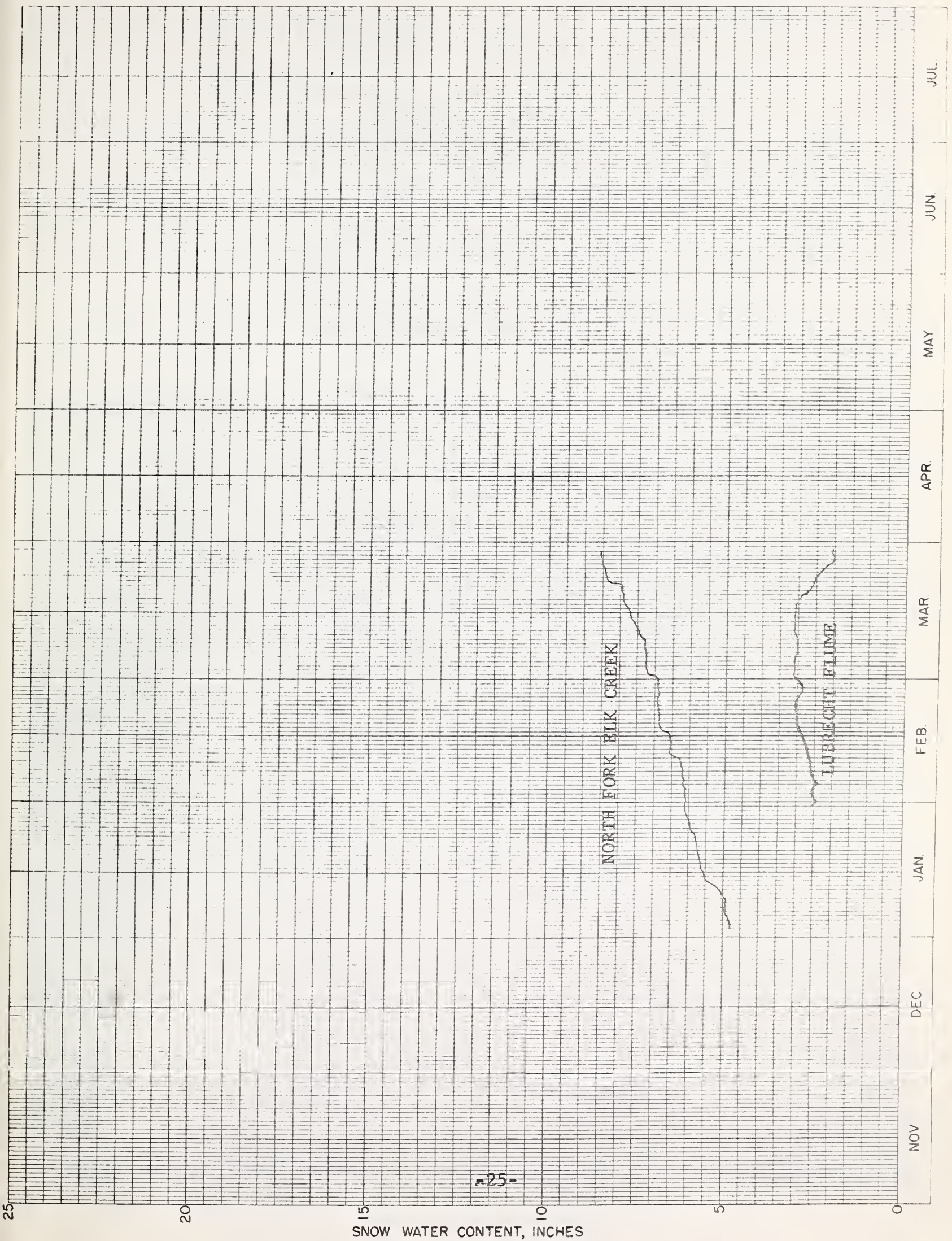


SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_

Elev. \_\_\_\_\_

Drainage. BLACKFOOT

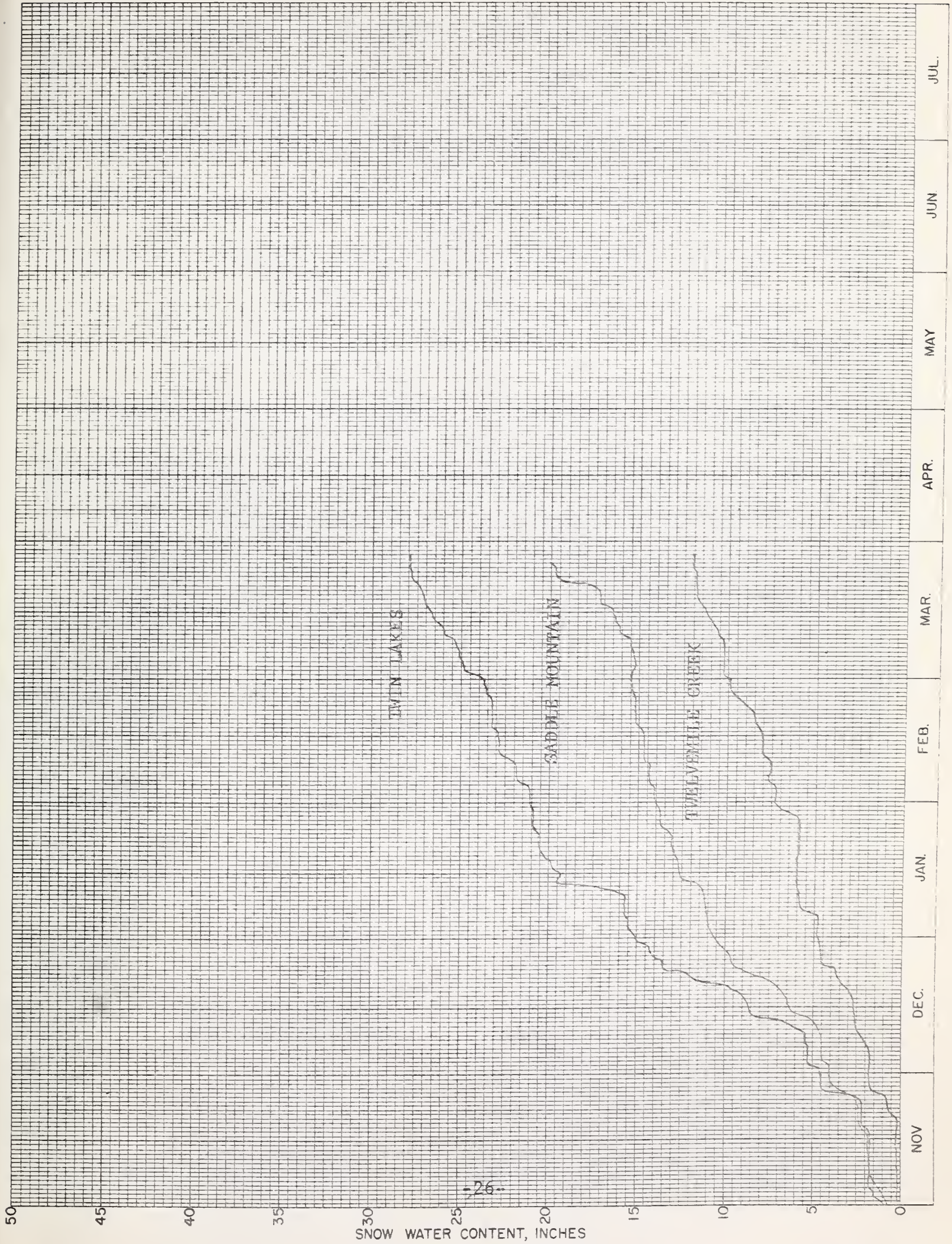






SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage BITTERROOT



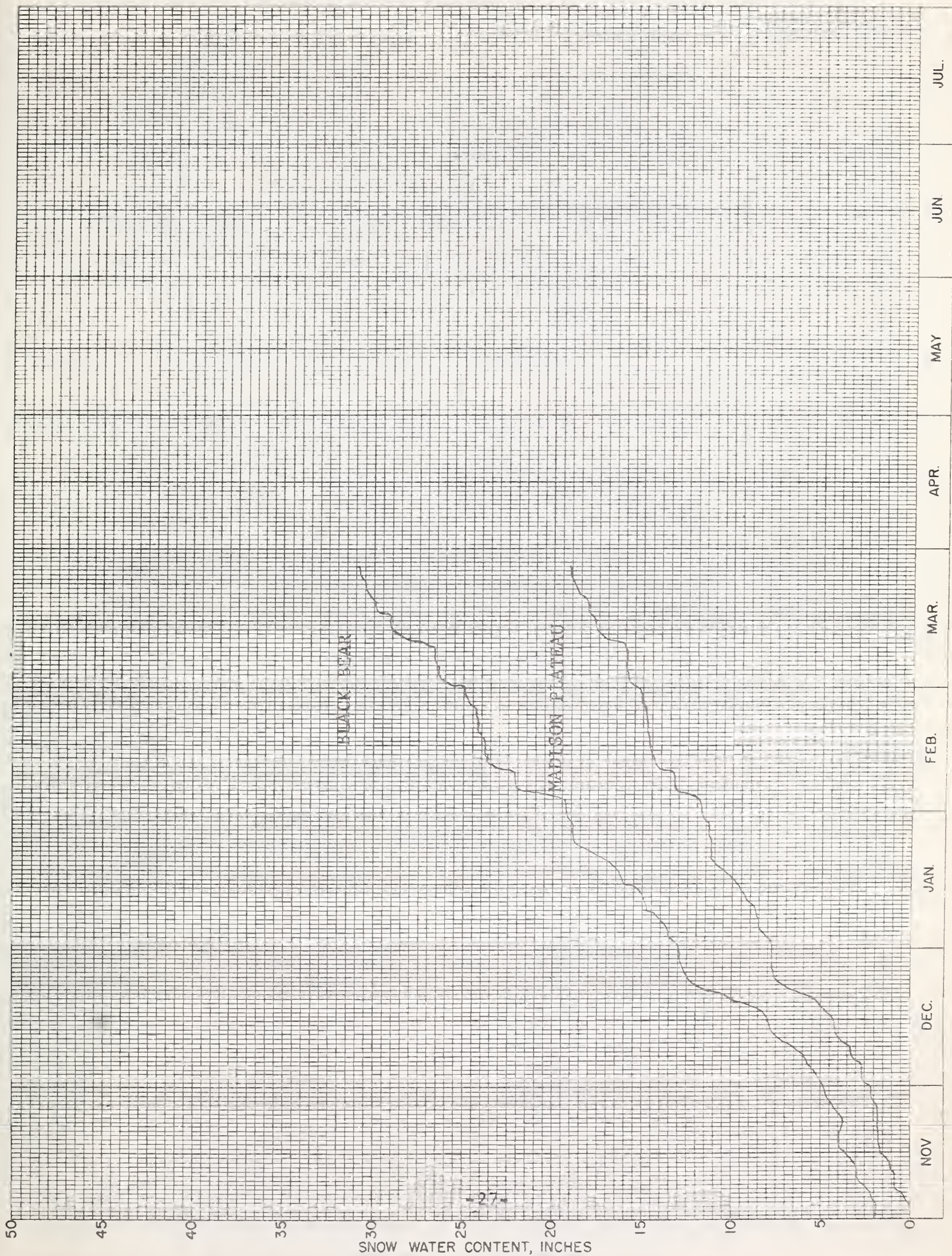






SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage: MADISON







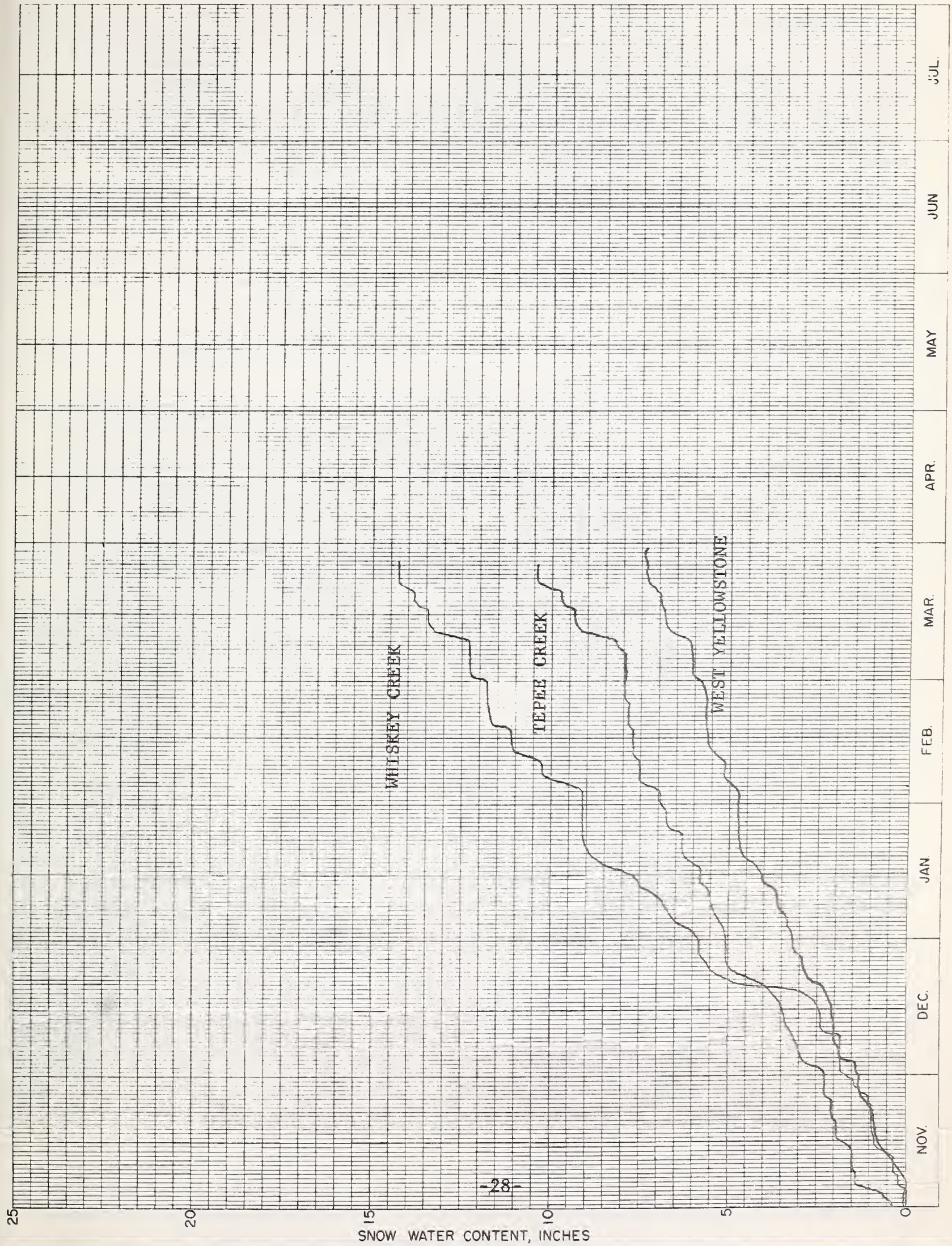
SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_

Elev. \_\_\_\_\_

Drainage. \_\_\_\_\_

MADISON

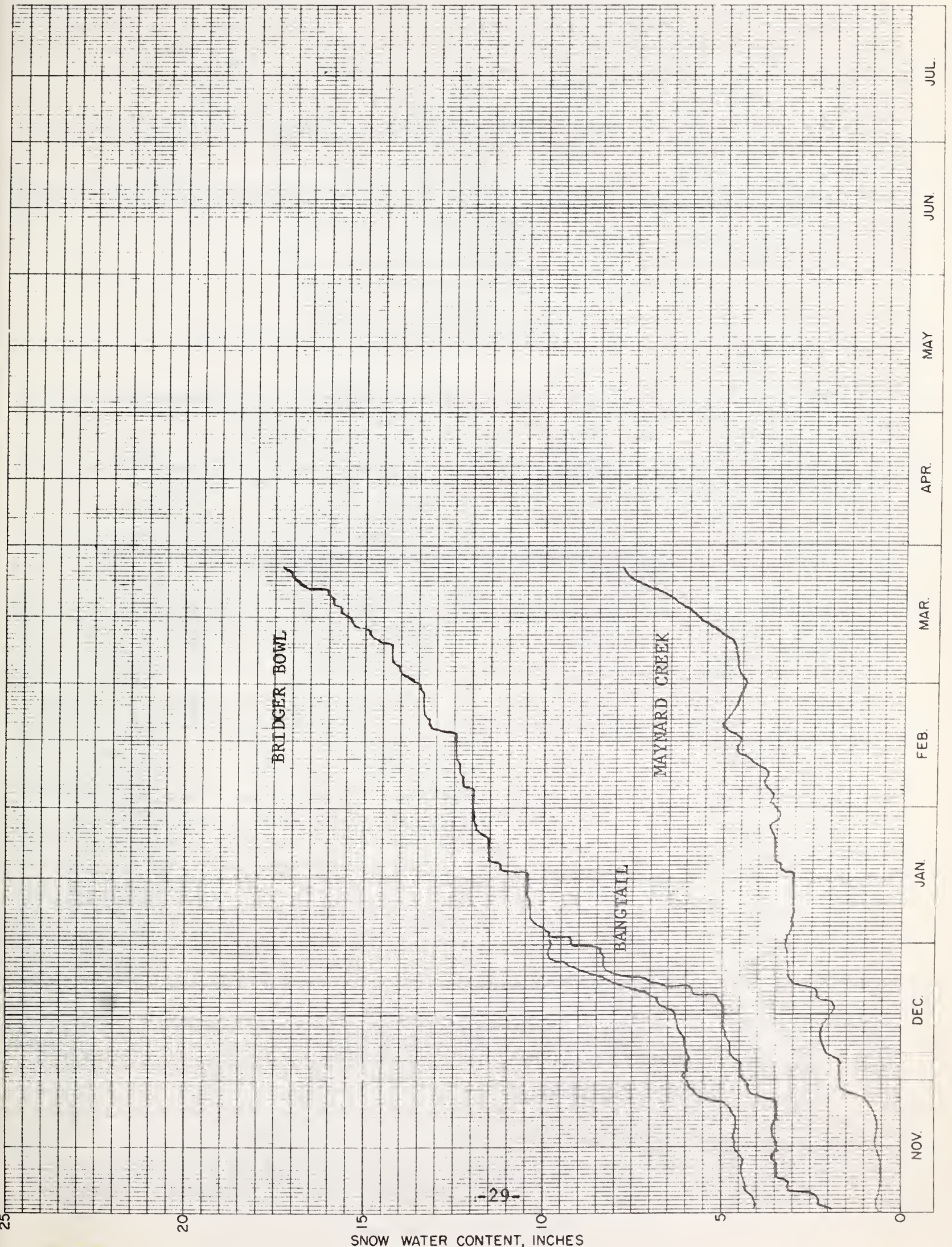






SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage. GALLATIN







SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_  
Carrot Basin pillow inoperative

Drainage. GALLATIN

SHOWER FALLS

LICK CREEK

JUL.

JUN.

MAY

APR.

MAR.

FEB.

JAN.

DEC.

NOV.

-30-

SNOW WATER CONTENT, INCHES



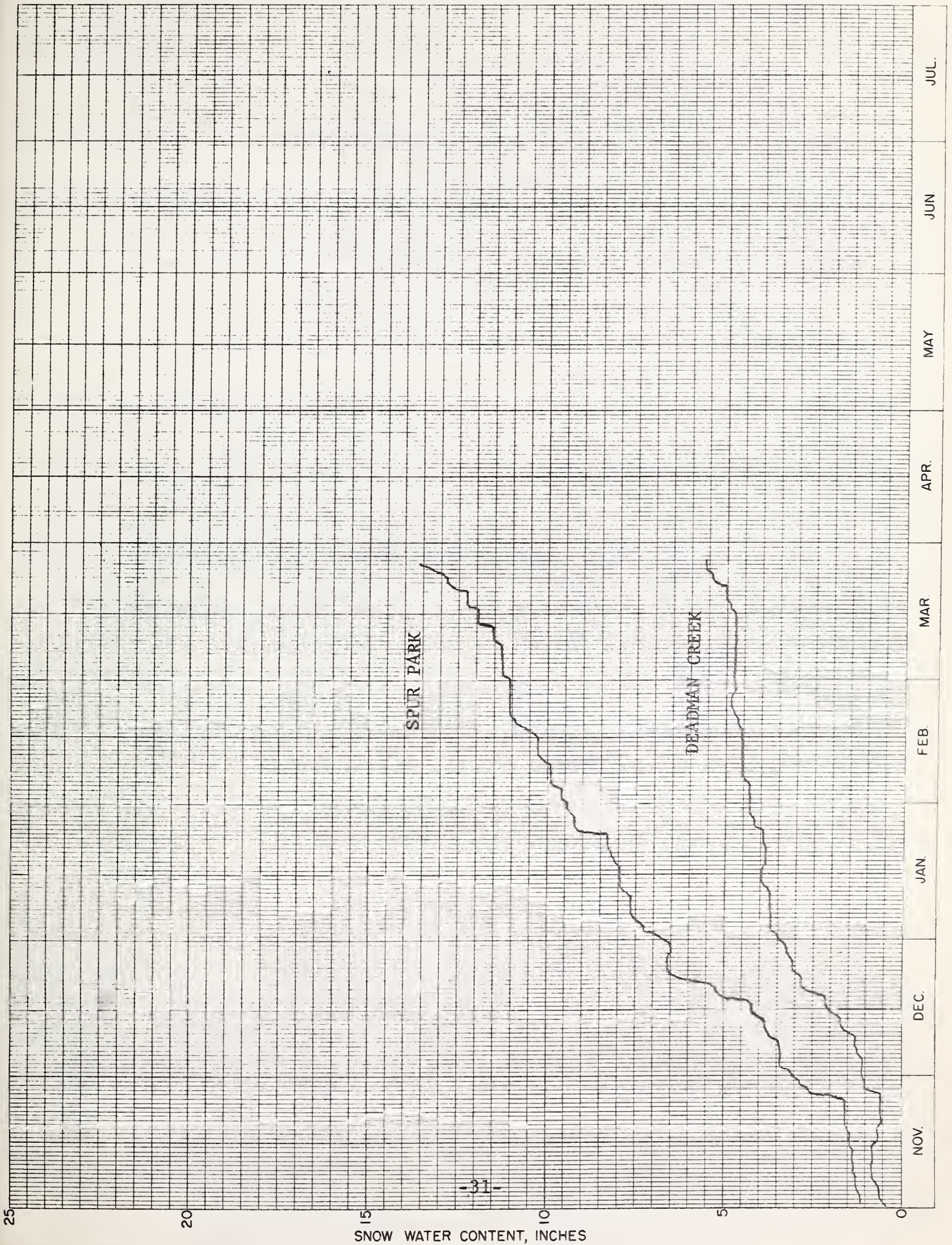


SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_

Elev. \_\_\_\_\_

Drainage. JUDITH-JEFFERSON-MISSOURI

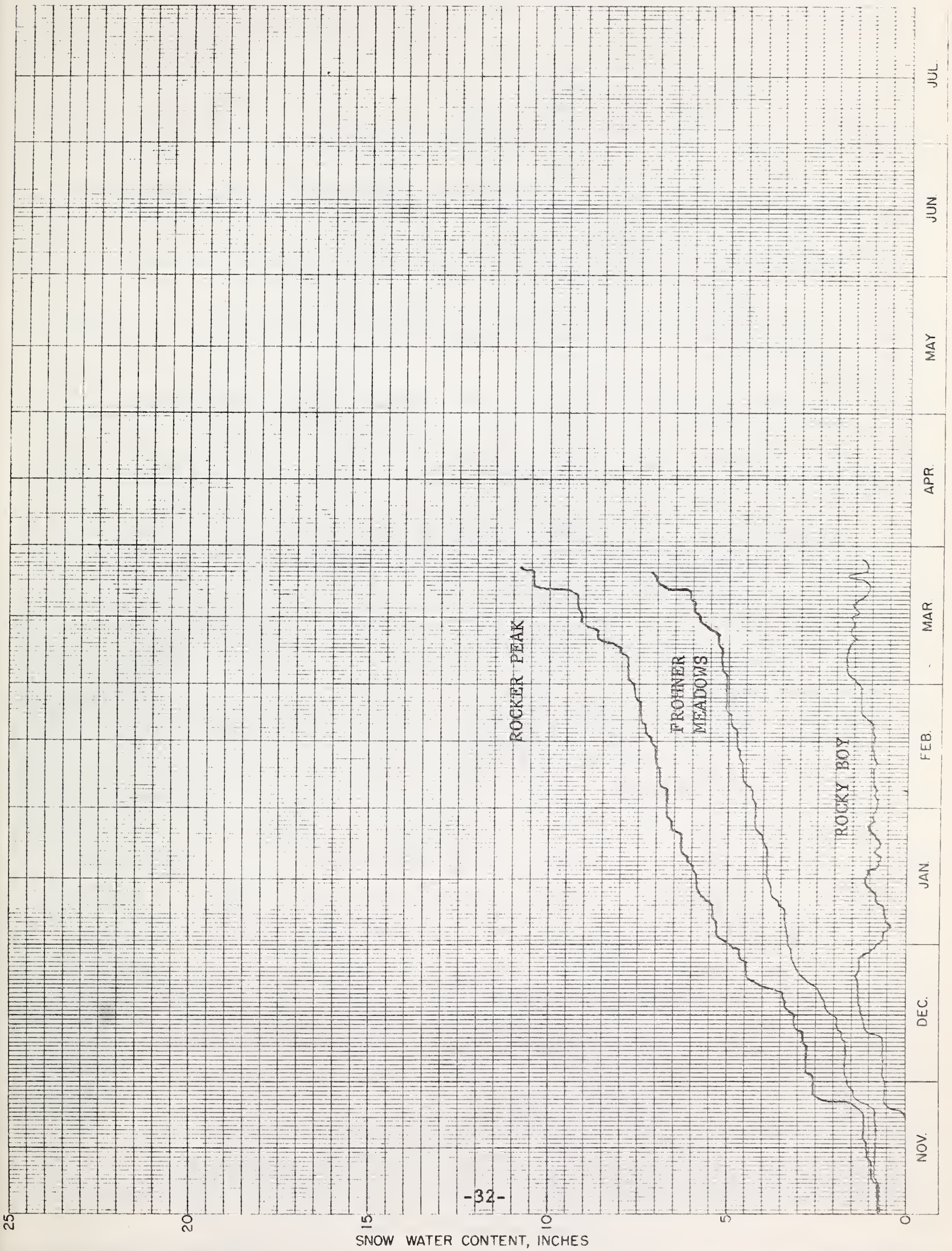






SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage. JEFFERSON-MISSOURI-MILK







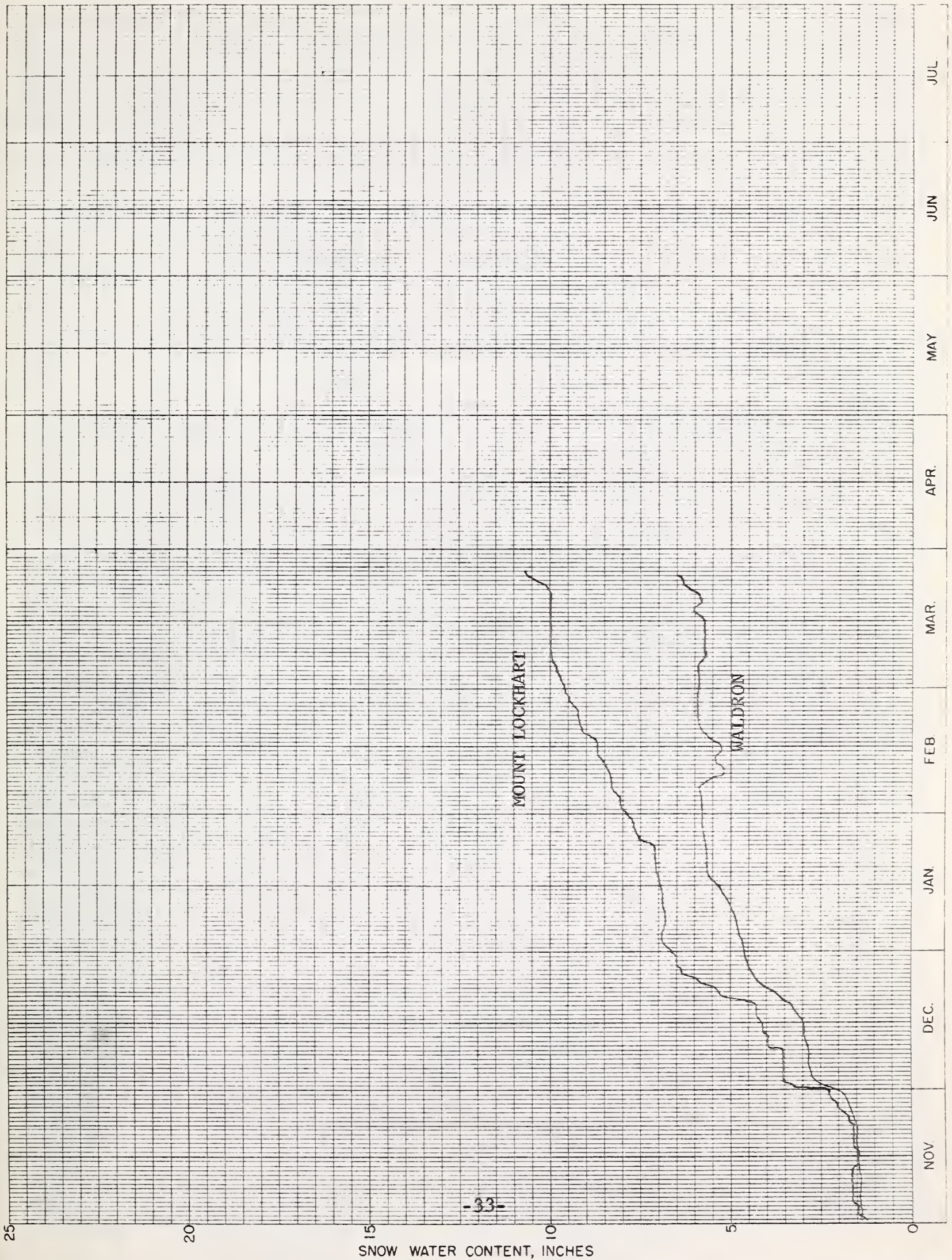
SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_

Elev. \_\_\_\_\_

Drainage. \_\_\_\_\_

SUN-TETON



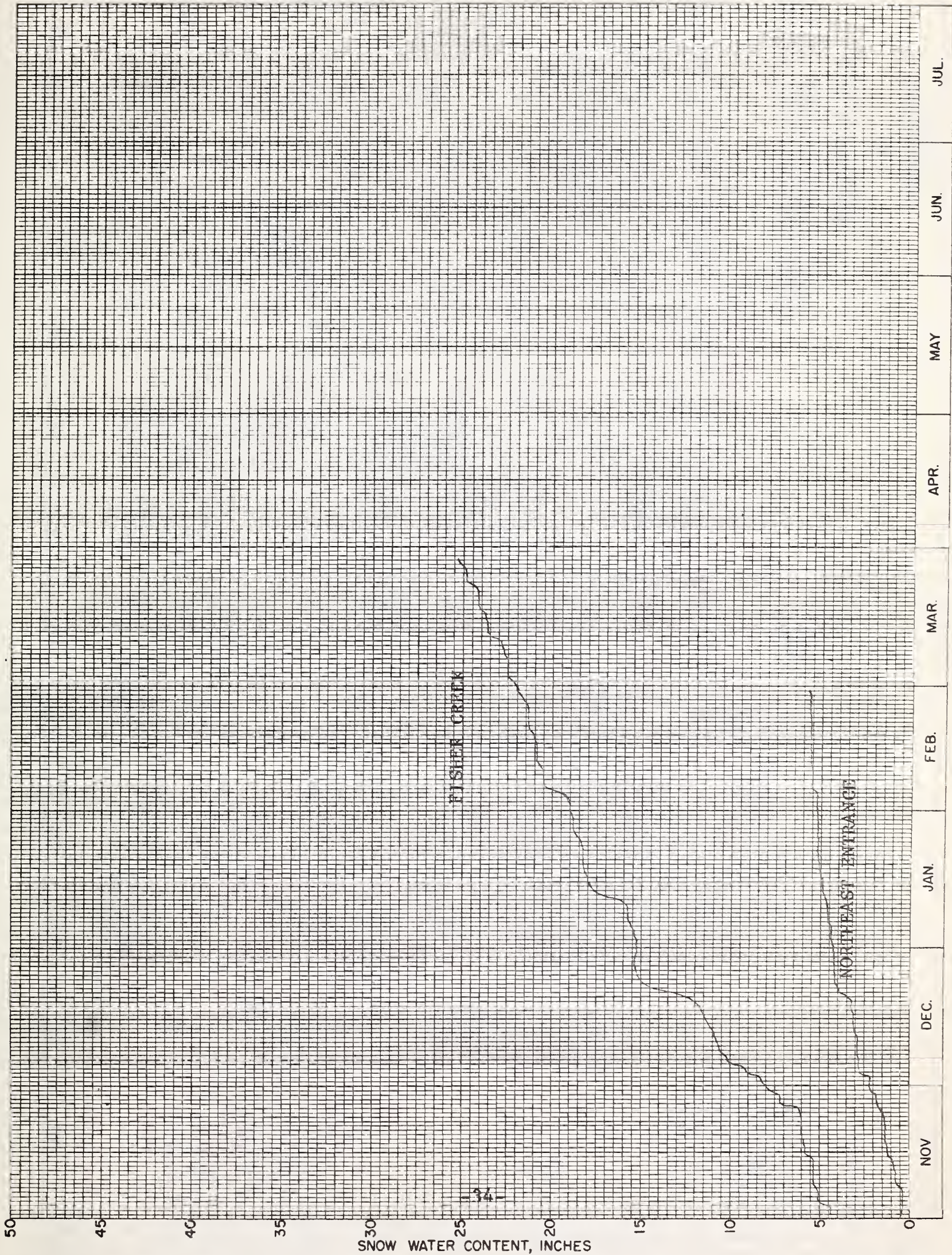
-33-





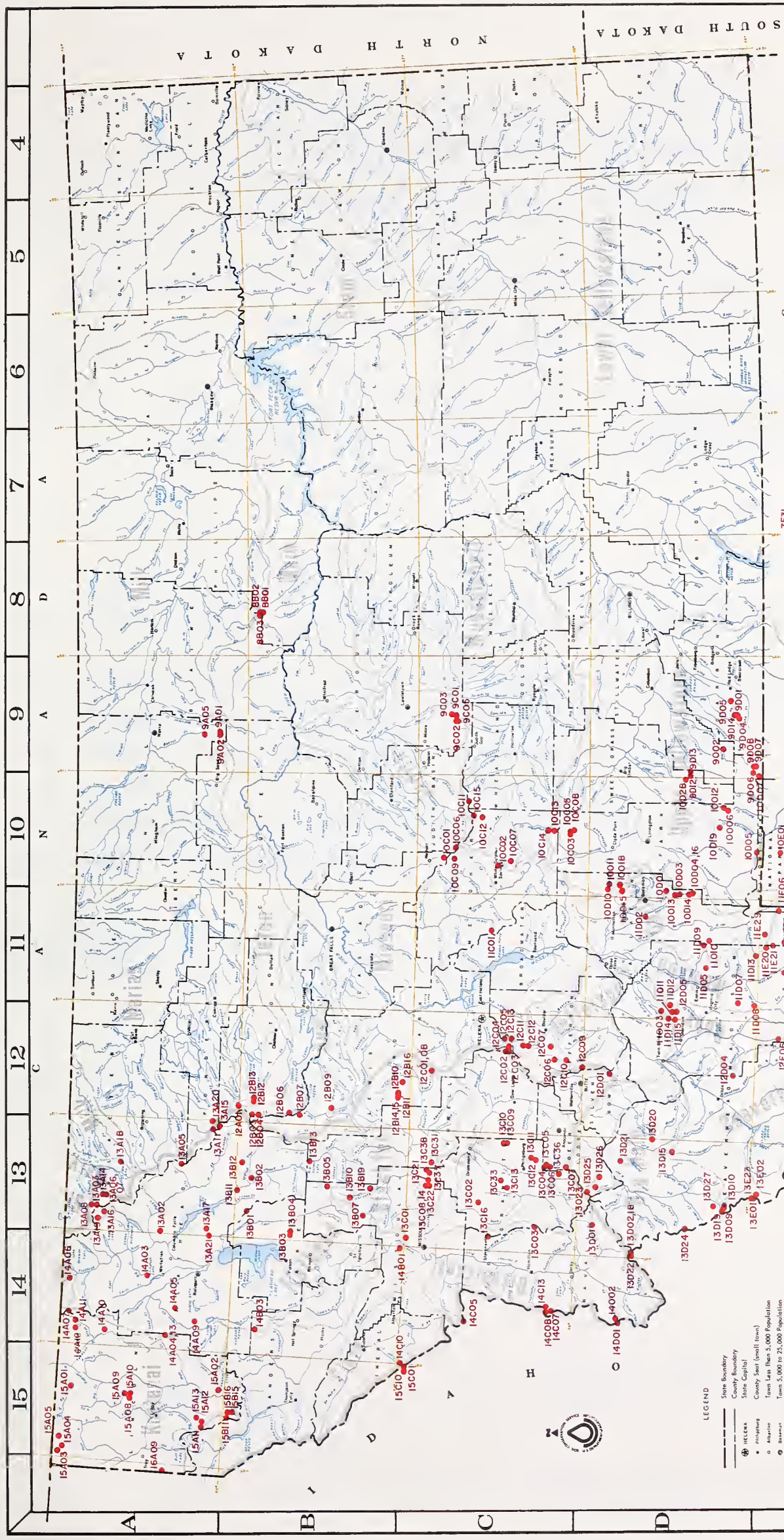
SNOW PILLOW DATA  
WATER YEAR 1973

No. \_\_\_\_\_ Elev. \_\_\_\_\_ Drainage YELLOWSTONE









# SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1973

20 0 20 40 MILES

SCALE 1:4,000,000

ALBERS EQUAL AREA PROJECTION

- LEGEND**
- State Boundary
  - County Boundary
  - State Capital
  - County Seat (small town)
  - Population
  - Town Less Than 5,000 Population
  - Town 5,000 to 25,000 Population
  - Town Over 25,000 Population
  - Towns of less than 5,000 omitted from map unless incorporated in population lake or reservoir.
  - Waterway
  - Canal or Ditch
  - Large Stream
  - Small Stream
  - Water Spreading
  - Watershed Boundary
  - Sub-watershed Boundary
  - Snow Data Measuring Site

USGS National Atlas 1:4,000,000 Albers  
Equal-Area projection (1967) used as source  
for base map and adapted for SCS use



INDEX to MONTANA SNOW COURSES and SOIL MOISTURE STATIONS

Drainage Basin & Snow Course	Number	Elev.	Sec.	Top.	Range	Record Began	Measuring Dates 1/	Means, By 2/	Moist.

SNOW COURSES  
COLUMBIA RIVER BASIN

Drainage Basin & Snow Course	Number	Elev.	Sec.	Top.	Range	Record Began	Measuring Dates 1/	Means, By 2/	Moist.
KOOTENAI RIVER									
Bald Eagle Peak	15A11	5700	6	27N	31W	1969			
Barfield Mountain	15A08	5600	4	32N	30W	1969	3,4,5,5,5,6	1	1,2
Sagehen Creek	15A09	5600	31	28N	30W	1969	2,3,4,5,5,5,6	2	2
Sagehen Creek	15B16	4600	31	26N	30W	1966	3,4,5,5,5,6	2	2
Rainbow Creek	15B15	3800	5	25N	30W	1965	3,4,5,5,5,6	2	2
Bristow Creek	15A10	3900	2	32N	30W	1969	2,3,4,5,5,5,6	1	1,2
Brush Creek	14A04	5000	12	30N	26W	1937	3,4,5	1	1,2
Brush Creek	14A13	5000	12	30N	26W	1969	3,4,5	1	1,2
Cedar Creek	15A06	5000	20	37N	33W	1969	2,3,4,5,5,5,6	1	1,2
Garver Creek	15A05	4500	18	37N	33W	1969	2,3,4,5,5,5,6	1	1,2
Graves Creek	14A11	4300	1	36N	25W	1937	3,4,5,5,5,6	1	1,2
Hawthorn Lake	15A03	6450	18	37N	33W	1969	2,3,4,5,5,5,6	1	1,2
Reeler Creek	16A09	5300	25	30N	35W	1969	3,4,5,5,5,6	1	1,2
Lois Creek	15A12	5100	5	27N	31W	1969	2,3,4,5,5,5,6	1	1,2
Red Mountain	15A01	6050	4	36N	29W	1937	3,4,5,5,5,6	2	2
Stahl Peak	14A12	6050	5	36N	25W	1969	3,4,5,5,5,6	1	1,2
Wesley Divide	14A07	5450	20	37N	24W	1937	3,4,5,5,5,6	1	1,2
FLATHEAD RIVER									
Basoon Peak	14B03	5150	11	24N	25W	1961	3,4,5	1,5	1,5
Beaver Lake	13A11	5900	31	28N	11W	1964	3,4,5	1	1,5
Big Creek	13B03	6750	7	22N	18W	1961	3,4,5	1	1,5
Camp Mearns	13A17	6400	30	28N	18W	1962	3,4,5	6	1,2
Copper Mountain	13B04	5500	28	22N	18W	1962	1,2,3,4,5	1	1,2
Flatfoot Mountain	13A19	5500	12	35N	18W	1968	3,4,5,5,5,6	1	1,5
Gifford Creek	14A09	5150	11	28N	25W	1960	3,4,5	1,5	1,5
Gunsight Lake	13B12	6100	30	26N	13W	1964	3,4,5	1	1,5
Hell Roaring Divide	14A03	5770	35	32N	22W	1962	1,2,3,4,5,5,5,6	2	2
Klimbino	14A06	3900	14	37N	22W	1964	3,4,5	6	1,2
Lojan Creek	14A05	4300	34	30N	24W	1937	3,4,5	1,2	1,2
Marias Pass	13A05	5250	34	30N	16W	1934	3,4,5	3	1,2
Mineral Creek	13A16	4000	29	35N	17W	1957	3,4,5	6	1,2
Noisy Creek	13A21	3600	35	28N	19W	1970	3,4,5	1,2	1,2
North Fork Elk Creek	13B01	6100	23	25N	15W	1968	3,4,5,5,5,6	1,5	1,5
Spotted Bear Mountain	13B02	7000	9	25N	17W	1968	3,4,5	1	1,5
Trinkus Lake	13B01	6100	9	25N	17W	1968	3,4,5	1	1,5
Upper Hell Lake	13B11	3580	25	26N	16W	1961	3,4,5	1	1
Upper Hell Lake	13B05	6200	28	26N	15W	1968	3,4,5	1	1
CLARK FORK RIVER									
Combination	13C13	7100	26	8N	15W	1959	1,2,3,4,5,5,5,6	1	1
Copper Bottom	12C13	5600	7	8N	16W	1971	1,2,3,4,5	1	1
Copper Camp	12B14	5200	15	15N	8W	1971	3,4,5	1,2	1,2
Copper Creek	12B14	5700	3	15N	9W	1971	3,4,5	1,2	1,2
Copper Lake Creek	12B15	6100	3	15N	9W	1971	3,4,5	1,2	1,2
Copper Lake Creek	12B16	6200	12	18N	16W	1967	1,2,3,4,5	1,2	1,2
Copper Hill	13B10	4200	12	18N	16W	1967	1,2,3,4,5	1,2	1,2
El Dorado Mine	13C09	7800	23	8N	13W	1969	3,4,5	1	1
Fred Burr Pass	13C11	8000	12	6N	13W	1957	3,4,5	1	1
Gold Creek Lake	13C10	7200	14	8N	12W	1969	3,4,5	1	1
Hear Lake	14C10	4000	11	14N	27W	1965	1,2,3,4,5,5,5,6	1,2	1,2
Hear Lake Trail	14C09	4000	11	14N	27W	1965	1,2,3,4,5,5,5,6	1,2	1,2
Wooden Creek	13C01	5900	16	5N	27W	1937	1,2,3,4,5,5,5,6	1,2	1,2
Intergrade	13C04	6450	6	16N	27W	1936	2,3,4,5	1	1
Librecht Flume	13C08	4800	13	13N	16W	1971	1,2,3,4,5	8	8
Librecht Forest No. 3	13C21	5450	19	13N	16W	1971	1,2,3,4,5	8	8
Librecht Forest No. 4	13C22	4650	23	13N	16W	1971	1,2,3,4,5	8	8
Librecht Forest No. 5	13C23	4650	23	13N	16W	1971	1,2,3,4,5	8	8
Librecht Impoundment	13C27	4200	22	13N	16W	1971	1,2,3,4,5	8	8
North Fork Elk Creek	13C31	6250	20	13N	13W	1968	1,2,3,4,5,5,5,6	2	2
Peterson Meadows	13C36	7200	2	4N	16W	1971	1,2,3,4,5,5,5,6	2	2
Red Lion	13C12	7100	22	6N	13W	1958	3,4,5	1	1
Skullaho Summit	13C03	7200	30	6N	13W	1937	3,4,5,5,5,6	1	1
Southern Mountain	13C05	7200	30	6N	13W	1937	3,4,5,5,5,6	1	1
Storm Lake	13C07	7780	18	5N	13W	1936	2,3,4,5	4	4
Stuart Hill	13C06	6500	19	5N	13W	1936	1,2,3,4,5	4	4
Stuart Mountain	13C01	7400	6	14N	18W	1936	3,4,5,5,5,6	8	8
TV Mountain	14B01	6800	33	15N	19W	1956	1,2,3,4,5,5,5,6	8	8
BITTERROOT RIVER									
Alderson	13C16	6480	28	9N	18W	1960	3,4,5	1	1
East Fork A. S.	13C01	5400	16	2N	17W	1937	3,4,5	1	1
Cibola Pass	13C02	7100	4	2S	19W	1934	1,2,3,4,5,5,5,6	1,3	1,3
Lost Horse	14C07	5940	5	4N	23W	1960	3,4,5,5,5,6	1	1
Nez Perce Camp	14C02	5580	19	5S	23W	1967	3,4,5	1	1
Nez Perce Camp	14C03	5580	19	5S	23W	1967	3,4,5	1	1
Saddle Mountain	13C22	7940	5	2S	19W	1965	1,2,3,4,5,5,5,6	1	1
Twinville Creek	14C13	5600	34	5N	23W	1968	1,2,3,4,5,5,5,6	1	1
Twin Lakes	14C08	6510	32	5N	23W	1960	1,2,3,4,5,5,5,6	1	1

HUDSON BAY BASIN

ST. MARY RIVER	12803	6800	17	25N	104	1949	3,4,5	2
Woods Bay Divide	13A18	5800	24	34N	16W	1962	3,4,5	3
Iceberg Lake No. 3	13A03	5600	1	35N	17W	1922	3,4,5	1
Josephine Lower No. 9	13A14	4900	22	35N	16W	1955	5	3,9
Mont Allen No. 7	13A07	5700	27	35N	16W	1922	5	3,9
Pleasant Pass No. 6	13A06	5500	27	35N	16W	1922	5	3,9
Pleasant Pass No. 5	13A06	5000	24	36N	17W	1927	5	3,9
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Woods Bay Divide	13A18	5800	24	34N	16W	1962	3,4,5	3
Iceberg Lake No. 3	13A03	5600	1	35N	17W	1922	3,4,5	1
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Iceberg Lake No. 3	13A03	5600	1	35N	17W	1922	3,4,5	1
Josephine Lower No. 9	13A14	4900	22	35N	16W	1955	5	3,9
Mont Allen No. 7	13A07	5700	27	35N	16W	1922	5	3,9
Pleasant Pass No. 6	13A06	5500	27	35N	16W	1922	5	3,9
Pleasant Pass No. 5	13A06	5000	24	36N	17W	1927	5	3,9
CLARK FORK RIVER <th>12803</th> <th>6800</th> <th>17</th> <th>25N</th> <th>104</th> <th>1949</th> <th>3,4,5</th> <th>2</th>	12803	6800	17	25N	104	1949	3,4,5	2
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# Agencies and Organizations Cooperating in Montana Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Department of Energy, Mines and Resources, Alberta  
Water Investigations Branch, Department of Lands,  
Forests, and Water Resources, British Columbia

### Federal:

Department of the Army  
Corps of Engineers  
U.S. Department of Agriculture  
Forest Service  
Soil Conservation Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of the Interior  
Bonneville Power Administration  
Bureau of Indian Affairs  
Bureau of Reclamation  
Bureau of Sports Fisheries and Wildlife  
Geological Survey  
National Park Service

## STATE

Montana Conservation Districts  
Montana Water Resources Board  
Montana State University - Agricultural Experiment  
Station  
North Montana Branch Station - Agricultural Experiment  
Station  
University of Montana - School of Forestry

## PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable  
information for snow survey reports. Their cooperation  
is gratefully acknowledged.

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with the Snow Survey"*